

± €316
User Guide



SAMSUNG DIGITally everyone's invited...

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# DUAL BAND GPRS Series SGH-e316 Portable Digital Telephone User Manual

Please read this manual before operating your phone, and keep it for future reference.



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## **Important Safety Precautions**

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

## **Road Safety at All Times**

Do not use a hand-held phone while driving; park the vehicle first.

## **Switching Off When Refueling**

Do not use the phone at a refueling point (service station) or near fuels or chemicals.

## **Switching Off in an Aircraft**

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

## **Switching Off in Hospitals**

Switch your phone off near medical equipment. Follow any regulations or rules in force.

#### Interference

All wireless phones may be subject to interference, which could affect their performance.

### **Special Regulations**

Follow any special regulations in force in any area and always switch your phone off whenever it is

forbidden to use it, or when it may cause interference or danger (in a hospital for example).

#### **Sensible Use**

Use only in the normal position (held to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

## **Emergency Call**

Ensure the phone is switched on and in service. Key in the emergency number for your present location, then press the key. You must deactivate any unnecessary features before you can make an emergency call. Give all the necessary information as accurately as possible. Do not end the call until given permission to do so.

#### **Water Resistance**

Your phone is not water-resistant. Keep it dry.

#### **Accessories and Batteries**

Use only Samsung-approved accessories and batteries. Use of any unauthorized accessories could damage your phone and may be dangerous.

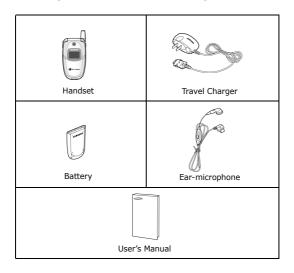
#### **Qualified Service**

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and Safety Information" on page 163.

# **Unpacking**

Your package contains the following items:



**Note:** The items supplied with your phone may be different, depending upon your country or service provider.

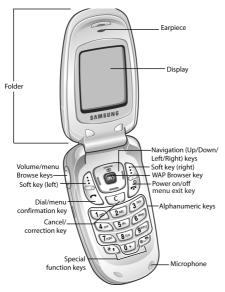
You can obtain the following accessories for your phone from your local Samsung dealer:

Standard battery	Ear-microphone
Simple hands-free kit	Car holder
Car power charger	Battery charger
Travel charger	Data kit

## Your Phone

## **Phone Layout**

The following illustrations show the main elements of your phone:





<b>Key</b> (s)	Description
	In Menu mode, scrolls through the menu options and Phone Book.
	In Idle mode, the Up key allows you to access the Camera menu and the Down key to access your favorite menu option directly. For further details about shortcuts, see "Using Shortcuts" on page 66.
	In Menu mode, the Left key returns to the previous menu level and the Right key selects the current menu.
	When entering text, moves the cursor to the left and right respectively.
	In Idle mode, allows you to access your favorite menu options directly. For further details about shortcuts, see "Using Shortcuts" on page 66.

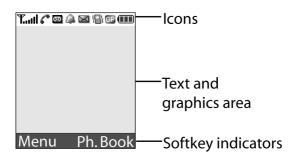
<b>Key</b> (s)	Description (Continued)
(soft keys)	Performs the functions indicated by the text above them, on the bottom line of the display.
m>	In Idle mode, launches the WAP (Wireless Application Protocol) browser.
$\sim$	Makes or answers a call.
0	In Idle mode, recalls the last number dialed, received or missed.
	In Menu mode, selects a menu function or stores information that you have entered, such as a name in the SIM card or phone's memory.
) <sub>(0)</sub>	Ends a call. Also switches the phone on and off when held down.
	In Menu mode, cancels your input and returns to Idle mode.
C	In the text Input mode, deletes characters from the display.
	In Menu mode, returns to the previous menu level.
100	In Idle mode, quickly accesses your voice mail when held down.
0 + \ \{	Enters numbers, letters and some special characters.

<b>Key</b> (s)	Description (Continued)
#"%	Enters special characters. Performs various functions.
Ø	(on the right side of the phone) In Standby mode, turns the camera on when held down. In Capture mode, works as a camera shutter.
	(on the left side of the phone) During a call, adjusts the earpiece volume. In Idle mode with the folder open, adjusts the keypad tone volume. With the folder closed, turns the external display on when held down. In Menu mode, scrolls through the menu options and Phone Book.

## **Display**

## **Display Layout**

The display has three areas:



Area	Description
First line	Displays various icons. See page 16.
Middle lines	Displays messages, instructions and any information that you enter, such as the number you are dialing.
Last line	Shows the current functions assigned to the two soft keys.

#### **Icons**

lcon	Description
Tad	Shows the received signal strength. The greater the number of bars, the stronger the signal.
c	Appears when a call is in progress.
ĸ	Appears when you are out of your service area. When it displays, you cannot make or receive a call.
GP	Appears when you are connected to the GPRS network.
( <b>@</b> )	Appears when the GPRS data connection is established.
R	Appears when you are out of your home area and have logged onto a different network; for example, when traveling in other countries.
×	Appears when a new text message has been received.
	Appears when a new multimedia message has been received.
ð	Appears when the Call Forwarding feature is activated.
8	Appears when a new voice mail message has been received.

Icon	Description (Continued)
<u> </u>	Appears when you set an alarm to ring at a specified time.
181	Appears when Silent mode is active or when you set the <b>Alert Type</b> menu <b>(Menu 5.3)</b> to <b>Vibration</b> . For further details, see page 33 and page 113 respectively.
Ж	Appears when Mute mode is active.
•	Shows the level of your battery. The more bars you see, the more power you have remaining.

## **Backlight**

The backlight illuminates the display and the keypad. When you press any key or open the folder, the backlight turns on and remains on for a given period of time, depending on your setting in the **Back Light** menu (**Menu 6.1.4**). When no keys are pressed, the display dims and turns off after one minute to conserve your battery power.

To specify the length of time the backlight is active, set the **Back Light** menu **(Menu 6.1.4)**. See page 118 for further details.

## **External Display**

Your phone has an external display on the folder. It indicates when you have an incoming call or a message. At the specified time it also alerts you when

you have set an alarm by flashing the service light and showing the corresponding icon on the display. You can also select the color of an image to be displayed in the **Front LCD** menu (**Menu 6.1.2**). See "Front LCD" on page 118 for further details.

To turn the display on with the folder closed, press and hold one of the Volume keys on the left side of the phone. With the folder closed, you can take photos using the external display by pressing the Camera key on the right side of the phone. For further details, see page 103.

## **Service Light**

The service light is on the folder. It flashes when services are available on the phone.

To activate or deactivate the service light, set the **Service Light** menu **(Menu 6.1.5)**. See page 118 for further details.



#### Camera

The camera module on the folder of your phone allows you to take a photo or record a video while on the move.

For further details about the Camera feature, see page 103.

# **Getting Started**

## **Installing the SIM Card**

When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, any optional services available and so on.

**Important!** The plug-in SIM card and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting or removing the card.

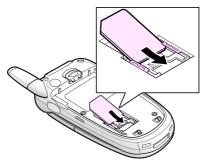
Keep all SIM cards out of the reach of small children.

- If necessary, switch the phone off by holding down the we key until the power-off image displays.
- 2. Remove the battery. To do so:
  - ① Slide the battery lock towards the top of the phone and hold it in that position.
  - 2 Lift the battery away, as shown.

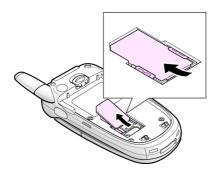


3. Slide the SIM card into the SIM card socket, as shown, so that it locks the card into position.

Make sure the metal contacts of the card face into the phone.



When you need to remove the SIM card, slide it upwards, as shown, and take it out of the socket.



4. Replace the battery so that the tabs on the end align with the slots at the bottom of the phone.



5. Press the battery down until it clicks into place. Make sure that the battery is properly installed before switching the power on.



## **Charging the Battery**

Your phone is powered by a rechargeable Li-ion battery. A travel charger comes with your phone for charging the battery. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

The travel charger allows you to use the phone while the battery is charging, but this causes the phone to charge more slowly.

**Note:** You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 200 minutes.

 With the battery in position on the phone, plug the connector of the travel charger into the jack at the bottom of the phone.



- 2. Plug the adapter into a standard AC wall outlet.
- When charging is finished, unplug the adapter from the power outlet and disconnect it from the

phone by pressing the buttons on both sides of the connector and pulling the connector out.



**Note:** You must unplug the adapter before removing the battery from the phone during charging; otherwise, the phone could be damaged.

## **Low Battery Indicator**

When the battery is weak and only a few minutes of talk time remain, a warning tone sounds and a message repeats at regular intervals on the display. If this happens, the display dims to conserve the remaining battery power.

When the battery level becomes too low, the phone automatically turns off.

## Switching the Phone On or Off

- 1. Open the folder.
- Press and hold the note that the phone switches on.

- If the phone asks you to enter the phone password, enter the password and press the OK soft key. It is preset to "00000000" at the factory. For further details, see page 159.
- 4. If the phone asks for a PIN, enter the PIN and press the **OK** soft key. For further details, see page 160.

The phone searches for your network and, after finding it, the idle screen appears on the display. You can now make or receive a call.

The display language is preset to English at the factory. To change the language, use the **Language (Menu 6.4).** For further details, see page 120.

5. When you wish to switch the phone off, press and hold the  $\sim$  key until the power-off image displays.

## **Call Functions**

## Making a Call

When the idle screen displays, enter the area code and phone number, then press the **n** key.

**Note:** When you activate the **Auto Redial** option in the **Extra Settings** menu (**Menu 6.6**), the phone automatically redials up to ten times when the person does not answer the call or is already on the phone. See page 123 for further details.

## **Making an International Call**

- 1. Press and hold the 0 key. The + character appears.
- Enter the country code, area code and phone number and press the key.

## **Correcting the Number**

To clear	Press the
the last digit displayed	C key.
any other digit in the number	Left or Right key until the cursor is immediately to the right of the digit to be cleared. Press the C key. You can also insert a missing digit simply by pressing the appropriate key.
the whole display	C key and hold it for more than one second.

#### **Ending a Call**

When you want to end your call, briefly press the  $rac{\infty}$  key or close the folder.

## **Redialing the Last Number**

The phone stores the numbers you have dialed, received or missed if the caller is identified. See "Call Records" on page 99 for further details.

To recall any of these numbers:

- 1. If you have typed characters on the display, press the  $\sim^{0}$  key to return to Idle mode.
- 2. Press the key to display a list of the last numbers in the order you made, received or missed them.

3. Use the Up and Down keys to scroll through the numbers until the number you want is highlighted.

То	Press the
dial the number	r key.
edit the number	Options soft key and select Edit. Change the number, referring to "Correcting the Number" on page 28.
delete the number	Options soft key and select Delete.
delete all of the numbers on the Call Log list	Options soft key and select Delete All. For further details, see page 100.

#### **Making a Call from Phone Book**

You can store the phone numbers that you use regularly in the SIM card or the phone's memory, which are collectively called Phone Book. Simply select a name to recall the associated number. For further details about the Phone Book feature, see page 37.

## **Adjusting the Volume**

During a call, if you want to adjust the earpiece volume, use the Volume keys on the left side of the phone.

Press the ∧ key to increase the volume level and the ✓ key to decrease the level.



In Idle mode, you can also adjust the keypad tone volume using these keys.

## **Answering a Call**

When somebody calls you, the phone rings and displays the incoming call image.

When the caller can be identified, the caller's phone number or name, if stored in your Phone Book, displays.

- 1. If necessary, open the folder.
- 2. Press the **n** key or the **Accept** soft key to answer the incoming call.

When the **Anykey Answer** option in the **Extra Settings** menu (**Menu 6.6**) is activated, you can press any key to answer a call except for the ••\(^0\) key and the **Reject** soft key. See page 124.

When the **Active Folder** option in the **Extra Settings** menu (**Menu 6.6**) is activated, you can answer the call simply by opening the folder. See page 123.

To reject the call, press and hold one of the Volume keys, or press the **Reject** soft key or  $\sim$  key.

3. End the call by pressing the  $rac{1}{2}$  key.

**Note:** You can answer a call while using Phone Book or menu features. After ending the call, the phone returns to the function screen you were using.

## **Viewing Missed Calls**

When you are unable to answer a call for any reason, you can find out who called you so that you can call the person back.

The number of calls you missed displays on the idle screen immediately after a call is missed.

To view the missed call immediately:

- 1. If necessary, open the folder.
- 2. Press the **View** soft key.

The number for the most recent missed call displays, if available.

То	Press the
scroll through the missed calls	Up or Down key.
call the number displayed	r key.

То	Press the
edit or delete a missed call number	Select soft key. See below.

## **Editing a Missed Call Number**

**Note:** When the number for the missed call is not available, the **Edit** option does not display.

- 1. Press the View soft key.
- 2. Press the Up or Down key to highlight the number and press the **Select** soft key.
- 3. Press the **Options** soft key.
- 4. Select the **Edit** soft key. Enter your edits and press the **Save** soft key.
- 5. Use the right and left soft keys to select the phone category and press the **Select** soft key.
- Choose between the SIM and Phone location options and press the **Select** soft key.
- Enter the Name or choose from the provided list and press the **OK** soft key.
- 8. Enter the number and press the **Save** soft key.

For more options on this function, see "Using Phone Book Entry Options" on page 40.

#### **Deleting a Missed Call**

- 1. Press the **Options** soft key.
- If necessary, press the Up or Down key to highlight the **Delete** option.
- 3. Press the **Select** soft key.

Note: You can access the Missed Call feature at any time by selecting the Missed Calls menu (Menu 3.1). For further details, see page 99.

## **Quickly Switching to Silent Mode**

Silent mode is convenient when you wish to stop the phone from making noise, in a theater for example. In Idle mode, press and hold the # key until the "Silent Mode" message and the Vibration icon (4) display.

In Silent mode, your phone changes the sound settings as follows:

Option	New Setting
Alert Type (Menu 5.3)	Vibration
Keypad Tone (Menu 5.4)	Off
Message Tone (Menu 5.5)	Vibration
Folder Tone (Menu 5.6)	Off
Power On/Off (Menu 5.7)	Vibration*
Extra Tones (Menu 5.9)	Off

Note: Menu 5.7 Power On/Off vibration occurs during power on not power off.

To exit and reactivate the previous sound settings, press and hold the **#** key again until "Exit Silent Mode" appears. The Vibration icon ( no longer displays.

# **Selecting Functions and Options**

Your phone offers a set of functions that allows you to customize it. These functions are arranged in menus and sub-menus, accessed using the two soft keys marked (a) and (a). Each menu and sub-menu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the function you are currently using; the labels on the bottom line of the display just above each key indicate its current role.

#### Example:



To view the various functions and options available and to select the one you want:

1. Press the appropriate soft key.

То	Press the
select the: • function displayed • option highlighted	Select soft key or the Right key.
view the next function or highlight the next option on a list	Down key or the ♥ key on the left side of the phone.
move back to the previous function or option on a list	Up key or the ↑ key on the left side of the phone.
move back up one level in the structure	Left key, C key or <b>5</b> soft key.
exit the structure without changing the settings	∽ <sup>®</sup> key.

In some functions, you may be asked for a password or PIN. Enter the code and press the **OK** soft key.

Note: When you access a list of options, your phone highlights the current option. If, however, there are only two options, such as On/Off or Enable/ Disable, your phone highlights the option that is not currently active so that you can select it directly.

# **Phone Book**

You can store phone numbers and their corresponding names in both your SIM card and phone's memory. They are physically separate but are used as a single entity, called Phone Book.

### Storing a Number with a Name

There are two ways to store a number:

- Using the Save soft key in Idle mode
- ♦ Using the New Entry option in the Phone Book menu

#### **Storing a Number in Idle Mode**

As soon as you start to enter a number, **Save** appears above the left soft key to allow you to store the number in Phone Book.

1. Enter the number you want to store.

Note: If you make a mistake while entering a number, correct it using the  ${\bf C}$  key. For further details, see page 28.

When you are sure that it is correct, press the Save soft key. 3. Select the category of the number to be stored. Three categories are available:

Mobile Number
Work Number
Home Number

To select the category, press the Left or Right key and press the **Select** soft key.

 Select a memory location, either SIM or Phone, by pressing the Up or Down key and press the Select soft key.

**Note:** When you change phones, any numbers stored in your SIM card memory are automatically available with the new phone, whereas any numbers stored in the phone's memory must be reentered.

5. Enter a name and press the **OK** soft key.

For further details about entering characters, see page 51.

То	Press the
use the entry options	<b>Options</b> soft key. For further details, see page 40.
return to the idle screen	ా <sup>∖©</sup> key.

#### **Storing a Number Using the Phone Book Menu**

- When the idle screen displays, press the **Ph.Book** soft key.
- Scroll to New Entry by pressing the Up or Down key and press the Select soft key.
- Select the category of the number to be stored by pressing the Left or Right key, and press the **Select** soft key.

**Note:** E-mail Address is available in this step. It allows you to save an e-mail address instead of a phone number.

 Select a memory location, either SIM or Phone, by pressing the Up or Down key and press the Select soft key.

If you are saving an e-mail address, **SIM** is not available.

- 5. Enter a name and press the **OK** soft key.
  - For further details about entering characters, see page 51.
- Enter the number or e-mail address you want to store and press the **Save** soft key.

То	Press the
use the entry options	<b>Options</b> soft key. For further details, see page 40.

То	Press the
return to the idle	<b>∽</b> ∖® key.
screen	-

## **Using Phone Book Entry Options**

While accessing any Phone Book entry, press the **Options** soft key to access the options for the entry.

То	Press the
select the highlighted option	Select soft key or the Right key.
highlight a different option	Up or Down key until the option you want highlights.

The following options are available:

**Paste**: allows you to paste the number into the normal dialing mode. Use this option to dial a number similar to one in Phone Book, such as a different extension in the same office.

Use the c key to change the number as required; see page 28 for further details. When you are ready to dial, press the  $\frown$  key.

**Edit**: allows you to edit the name and/or number. Select **One Entry** to change the name and/or number for the selected entry.

Select **All Entry** to change only the name of the entry.

**Photo Caller ID**: allows you to assign one of the photos you took using the camera as a caller ID image to be displayed when you receive a call from

the selected number. For details about the Camera feature, see "Camera" on page 103.

<u>Select a Photo</u>: allows you to select a photo for the number.

<u>View</u>: displays a photo assigned to the number. <u>Delete</u>: cancels the photo caller ID setting for the number.

**Delete**: allows you to delete the selected number from Phone Book. You are asked to confirm that you wish to delete the name and number by pressing the **Yes** soft key.

**Copy**: allows you to copy the number to another location. You can select the memory location.

**Caller Group**: allows you to organize your Phone Book entries in caller groups so that the phone alerts you in a specific way when a person from one of your groups calls you. Select one of the ten groups available.

To remove an entry from a group, select the **No Group** option.

For further details about how to change caller group properties, see page 46.

**Add Entry**: allows you to add a new number to the currently selected name.

### Dialing a Number from the Phone Book

Once you have stored phone numbers in the Phone Book, you can dial them easily and quickly by using the location numbers that were assigned to them in the Phone Book.

### **Dialing a Number from the SIM Card**

- In Idle mode, enter the location number of the number you want to dial and press the # key.
   The list of the entries in the SIM card appears.
- 2. If necessary, scroll through the list using the Up or Down key.
- When the number displays, press the **Dial** soft key or key.

### **Dialing a Number from the Phone's Memory**

- In Idle mode, press and hold the 0 key. A + appears.
- 2. Enter the location number of the number you want and press the # key.
- 3. The list of the entries in the phone's memory appears.
- If necessary, scroll through the list using the Up or Down key.
- When the number displays, press the **Dial** soft key or **n** key.

# **Speed Dialing**

You can assign up to eight phone numbers from Phone Book that you use most frequently to the number keys (2 to 9), and then dial them easily whenever you want, simply by pressing and holding the associated number key.

#### **Setting up Speed-dial Entries**

- When the idle screen displays, press the **Ph.Book** soft key.
- 2. Scroll to speed dial by pressing the Up or Down key and press the **Select** soft key.
- 3. Select a number between **2** to **9** to assign the speed dialling number, and press the **OK** soft key.

Note: Memory location 1 is reserved for your Voice Mail server number.

If you have already assigned a number to the key, the **Options** soft key replaces the **OK** soft key. Go to step 6.

- Select an entry from the list and press the View soft key.
- 5. Press the **Select** soft key to save this entry in the speed dial list.
- 6. When you are finished, press the soft key or the soft key or to edit the number use the following options by pressing the **Options** soft key:
- Change: allows you to assign a different number to the key.
- **Delete**: allows you to clear the setting so that no number is assigned to the key.
- Delete All: allows you to clear the settings for all keys so that no numbers are assigned to any of the keys.

 Number: allows you to view the number assigned to the key. You can dial the number by pressing the key.

#### **Speed-dialing from Phone Book**

To speed-dial the numbers assigned to the **2** to **9** keys, press and hold the appropriate key.

**Searching for and Dialing a Number in Phone Book**After storing numbers in Phone Book, you can search for them in two ways; by name and by caller group.

### **Searching for a Number by Name**

- When the idle screen displays, press the **Ph.Book** soft key.
- 2. Press the **Select** soft key when **Search** highlights. You are asked to enter a name.
- Enter the first few letters of the name that you want to find. The Phone Book entries are listed, starting with the first entry matching your input.

То	Press the
view the highlighted entry	View soft key.
select a different entry	Up or Down key until the entry you want highlights.

То	Press the
look for a name starting with a different letter	key labeled with the letter you want.

4. Once you have found the entry, press the key to dial the number, or press the **Options** soft key to access the Phone Book entry options; for further details, see page 40.

#### Searching for a Number by Caller Group

- When the idle screen displays, press the Ph.Book soft key.
- 2. Scroll to **Group Search** by pressing the Up or Down key and press the **Select** soft key. You are asked to enter a group name.
- 3. Enter the first few letters of the group name that you want to find. The caller groups are listed, starting with the first group matching your input.
- 4. If necessary, scroll to a group by pressing the Up or Down key and press the **View** soft key. The Phone Book entries in the caller group are listed.

То	Press the
view the highlighted entry	View soft key.

То	Press the
select a different entry	Up or Down key until the entry you want highlights.

 Once you have found the entry, press the key to dial the number, or press the Options soft key to access the Phone Book entry options; for further details, see page 40.

## **Editing a Caller Group**

- When the idle screen displays, press the **Ph.Book** soft key.
- Scroll to Group Edit by pressing the Up or Down key and press the Select soft key.
- Scroll through the group list by pressing the Up or Down key.
- 4. When the group you want highlights, press the **Options** soft key.
- Select each option and change the settings, as you want.

The following options are available:

- Call Ring Tone: allows you to set a ring tone to be used when you receive a call from a person in the group.
- SMS Tone: allows you to set a ring tone to be used when you receive a message from a person in the group.

- Graphic: allows you to set a graphic icon to be displayed when you receive a voice call from a person in the group.
- Group Name: allows you to assign a name to the group. For further details about entering characters, see page 51.
- 6. When you are finished, press the 6 or 6 key.

#### **Speed-dialling from the SIM Card**

To speed-dial the numbers saved in the SIM card:

- Enter the location number and press the 
   nor # key.
- 2. The display shows the information about the entry, such as name, phone number and memory location.
- 3. If necessary, press the Up or Down key to scroll to the previous or next entry.
- 4. Press the **n** key or **Dial** soft key.

## **Deleting All of the Phone Book Entries**

You can delete all of entries in the selected memory or both memories.

- When the idle screen displays, press the **Ph.Book** soft key.
- Scroll to **Delete All** by pressing the Up or Down key and press the **Select** soft key.

To place a check mark by the memory you want to empty, All, SIM or Phone, press the Mark soft key.

You can remove the check mark by pressing the **Unmark** soft key.

- When you are finished marking, press the **Delete** soft key to delete the entries in the selected memory.
- 5. Enter the phone password and press the **OK** soft key.

The password is preset to "00000000" at the factory. To change this password, see page 159.

When a confirming message appears, press the Yes soft key.

To cancel the deletion, press the No soft key.

7. When you are finished, press the c or  $extbf{ iny}^{0}$  key.

## **Checking the Memory Status**

You can check how many names and numbers are stored in Phone Book, in both the SIM card and phone's memory. You can also see the capacity of both memories.

- When the idle screen displays, press the **Ph.Book** soft key.
- 2. Select the **Memory Status** option by pressing the Up or Down key and press the **Select** soft key.

- Press the **Up** or **Down** key to view the number of existing and total entries available in the SIM card and phone's memory.
- 4. When you are finished, press the  $\mathbf{C}$  or  $\mathbf{r}^{0}$  key.

# **Using the Service Dialing Numbers**

You can view the list of Service Dialing Numbers (SDN) assigned by your service provider. These numbers include emergency numbers, directory enquiries and voice mail numbers.

- When the idle screen displays, press the **Ph.Book** soft key.
- Select the SDN option by pressing the Up or Down key and press the Select soft key.
- Scroll through the numbers by using the Up or Down key.
- 4. To dial the number displayed, press the **Dial** soft key.

**Note:** This option is available only when your SIM card supports Service Dialing Numbers.

# **Entering Text**

When using your phone, you will often need to enter text, such as when storing a name in Phone Book, creating your personal greeting or scheduling events on your calendar. You can enter alphanumeric characters by using your phone's keypad.

Your phone has the following text input modes:

#### T9 mode

This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter; for example, when you press the 5 key once, J, K or L displays. T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional Alphabet mode.

#### Alphabet mode

This mode allows you to enter letters by pressing the key labeled with the letter you want. Press the key once, twice, three or four times until it displays.

#### Number mode

This mode allows you to enter numbers.

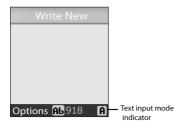
#### Symbol mode

This mode allows you to enter various symbols and special characters.

## **Changing the Text Input Mode**

When you are in a field that allows characters to be entered, you will notice the text input mode indicator on the display.

Example: Writing a text message



To select	Press the right soft key until
T9 mode	displays. See page 52.
Alphabet mode	A displays. See page 55.
Number mode	1 displays. See page 56.
Symbol mode	the symbol list displays. See page 56.

### **Using T9 Mode**

T9 is a predictive text input mode that allows you to key in any character using single keystrokes. This text input mode is based on a built-in dictionary.

To enter a word in T9 mode:

 When you are in T9 mode, start entering a word by pressing the 2 to 9 keys. Press each key only once for each letter. <u>Example</u>: To enter "HELLO" in T9 mode, press the **4**, **3**, **5**, **5** and **6** keys.

The word that you are typing appears on the display. It may change with each key that you press.

- 2. Enter the whole word before editing or deleting the keystrokes.
- 3. When the word displays correctly, go to step 4.

If not, press the  ${\bf 0}$  key or the Up or Down key repeatedly to display alternative word choices for the keys that you have pressed.

Example: Both "OF" and "ME" use the **6** and **3** keys. The phone displays the most commonly used choice first.

4. Insert a space by pressing the # key and start entering the next word.

To add a new word into the T9 dictionary:

- After pressing the keys corresponding to the word you want to add, press the 0 or Down key to display the alternative words.
- 2. When you press the **0** or Down key on the last alternative word, the display shows **Add** on the bottom line. Press the **Add** soft key.
- 3. If necessary, clear the word using the  $\varepsilon$  key and enter the word you want using Alphabet mode. See page 55.
- 4. Press the **OK** soft key.

- The word is added to the T9 dictionary and becomes the first word for the associated keypress.
- ◆ To enter periods, hyphens or apostrophes, press the 1 key. T9 mode applies grammar rules to ensure that the correct punctuation is used.
- ◆To shift the case in T9 mode, use the ★ key. There are three cases; Initial Capital (в), Capital lock (в) and Lower case (в).
- ◆ You can move the cursor by using the Left and Right keys. To delete letters, press the C key. Press and hold the C key to clear the display.

#### **Using Alphabet Mode**

Use the 1 to 0 keys to enter your text.

- 1. Press the keys labeled with the letter you want:
  - Once for the first letter
  - Twice for the second letter
  - And so on
- 2. Select the other letters in the same way.

**Note:** The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then select the next letter.

Refer to the table below for further details about the characters available:

Key	Characters in the Order Displayed		
	Upper Case	Lower Case	
1	.,-?!@:()/1	.,-?!@:()/1	
2	ABC2ÄÅÆÇГ	а b с 2 à ä åæ Г	
3	DEF3ÉΔΦ	d e f 3 è é Ф	
4	G H I 4 Θ Ψ	ghi4ìΨ	
5	JKL5 A	j k l 5 Λ	
6	MNO6ÑØÖö	mno6ñøòö	
7	PQRS7ΠΣΞ	pqrs7βΣΞ	
8	TUV8Üü	tuv8ùü	
9	W X Y Z 9 Ω	w x y z 9 Ω	
0	+=<> <b>€</b> £\$%&¥¤0	+=<> <b>€</b> £\$%&¥¤0	

◆To insert a space, press the # key.

- To shift the case in Alphabet mode, use the \* key.
   There are three cases; Capital lock (пв.), Lower case (пь.) and Initial Capital (пь.).
- ◆ You can move the cursor by using the Left and Right keys. To delete letters, press the c key. Press and hold the c key to clear the display.

## **Using Number Mode**

Number mode enables you to enter numbers into a text message. Press the keys corresponding to the digits you want to enter.

## **Using Symbol Mode**

Symbol mode enables you to insert symbols into a text message.

То	Press the
select a symbol	corresponding number key.
display more symbols	Up or Down key.
clear the symbol(s)	C key. When the input field is empty, this key returns the screen to the previous mode.
insert the symbol(s) into your message	OK soft key.
cancel your input and return to the previous mode	Back soft key.

# **Options During a Call**

Your phone provides a number of control functions that you can use during a call.

### **Putting a call on Hold**

You can place the current call on hold whenever you want. You can make another call while you have a call in progress if your network supports this service. To place a call on hold, simply press the **Hold** soft key. You can reactivate the call whenever you want, by pressing the **Unhold** soft key.

To make a call while you have a call in progress:

- Put the current call on hold by pressing the Hold soft key.
- 2. Enter the phone number that you wish to dial or look it up in Phone Book.
  - For details about searching for a number in Phone Book, see page 37.
- 3. Press the relative key to dial the second call.

When you have an active call and a call on hold, you may switch between the two calls, changing the one on hold to active and placing the other on hold. To switch between the two calls, simply press the **Swap** soft key.

The current call is placed on hold and the call on hold is reactivated so that you can continue conversing with the other person. When you want to finish, end each call by pressing the  $\mathbf{r}^{0}$  kev.

## **Using the Menu Functions**

During a call, you can access the main menu functions.

- 1. Press the **Options** soft key.
- 2. Press the **OK** soft key when the **Menu** option highlights.
- 3. Press the **Up** or **Down** key to scroll through the menu list.

Note: You cannot use some menus during a call. They are deactivated on this list.

- 4. When the menu you want highlights, press the Select soft kev.
- 5. If the selected menu has sub-options, repeat steps 3 and 4.

For further details about the menu functions available, see the list on page 66.

### Switching the Microphone Off (Mute)

You can temporarily switch your phone's microphone off so that the other person on the phone cannot hear you.

Example: You wish to say something to another person in the room but do not want the person on the phone to hear you.

To switch the microphone off temporarily:

- 1. Press the **Options** soft key.
- 2. Press the Down key to highlight the Mute option.
- 3. Press the **OK** soft key.

The other person can no longer hear you.

To switch the microphone back on:

- 1. Press the **Options** soft key.
- If necessary, press the **Down** key to highlight the **Unmute** option.
- 3. Press the **OK** soft key.

The other person can hear you again.

### **Muting or Sending Key Tones**

These options allow you to turn the key tones off or on. If the **Mute Keys** option is selected, your phone does not transmit the DTMF (Dual Tone Multi-Frequency) tones of the keys, which allows you to press keys without hearing annoying key tones during a call.

Note: To communicate with answering machines or computerized telephone systems, the Send Keys option must be selected.

## Sending a Sequence of DTMF Tones

You can send the DTMF tones after entering the entire number you need to send.

This option is helpful for entering a password or an account number when you call an automated system, like a banking service.

To send the DTMF tones:

- 1. When you are connected to the teleservice system, press the **Options** soft key.
- 2. Press the Down key to highlight the **Send DTMF** option.
- 3. Press the **OK** soft key.
- 4. Enter the number you want to send and press the **OK** soft key. The tones are sent.

## Searching for a Number in Phone Book

You can search for a number in Phone Book during a call.

- 1. Press the **Options** soft key.
- 2. Press the Down key to highlight the **Phonebook** option.
- 3. Press the **OK** soft kev.

The Phone Book entries are listed.

4. Enter the name that you wish to find.

If you enter the first few letters of the name, the Phone Book entries are listed, starting with the first entry matching your input.

To view the highlighted entry, press the View soft key.

For further details about the Phone Book feature, see page 37.

## **Using the SMS Service**

If you receive an SMS (Short Message Service) message during a call, the Message icon ( ) flashes on the display. The **SMS Service** option enables you to read the message. You can also write a new text message.

For further details about the SMS service, refer to page 73.

### **Call Waiting**

You can answer an incoming call while you have a call in progress, if your network supports this service and you have set the **Call Waiting** menu (**Menu 8.2**) to **Activate**; see page 140. You are notified of an incoming call by a call waiting tone.

To answer a call while you have a call in progress:

- Press the key to answer the incoming call. The first call is automatically put on hold.
- 2. To switch between the two calls, press the **Swap** soft key.

To end the call on hold, press the Options soft key and select the End Held Call option.

To end the current call, press the  $\infty$ 0 key.

# Making a Multi-party Call

A multi-party call is a network service that allows up to six people to take part simultaneously in a multiparty or conference call. For information, contact your service provider.

#### **Setting up the Multi-party Call**

- 1. Call the first participant in the normal way.
- 2. Call the second participant in the normal way. The first call is automatically put on hold.
- To join the first participant to the multi-party call, press the Options soft key and select the Join option. Press the OK soft key.
- To add a new person to the multi-party call, call the person in the normal way and press the Options soft key. Select the Join option and press the OK soft key.

You can add incoming callers by answering the call, pressing the **Options** soft key, and selecting the **Join** option. Repeat as required.

#### **Having a Private Conversation with One Participant**

 Press the Options soft key and choose the Select One option. Press the OK soft key. The list of call participants appears.

- Highlight a person from the list by pressing the Up or Down key, and press the Select soft key or the key.
- When the **Private** option highlights, press the **OK** soft key.

You can now talk privately to that person. The other participants can still converse with each other.

 To return to the multi-party call, press the Options soft key and select the Join option. Press the OK soft key.

All the multi-party call participants can now hear each other.

### **Dropping One Participant**

 Press the Options soft key and choose the Select One option. Press the OK soft key.

The list of call participants appears.

- Highlight a person from the list by pressing the Up or Down key, and press the **Select** soft key or the key.
- 3. Press the Down key to select the **Remove** option and press the **OK** soft key.

The call ends with that participant, but you can continue to talk to the others.

4. When you want to end the multi-party call, press the  $\mathbf{r}^{0}$  key.

#### **New Call**

While on a call, you can place another call by pressing the Options soft key. Highlight the New Call option or press the 6 key. Dial the number you wish to reach and press the **A** key.

# **Using the Menus**

The phone offers a range of functions that allow you to tailor it to your needs. These functions are arranged in menus and sub-menus.

The menus and sub-menus can be accessed by scrolling using the Navigation keys or by using the shortcuts.

## **Accessing a Menu Function by Scrolling**

- In Idle mode, press the Menu soft key to access Menu mode.
- Scroll using the Up or Down key to reach a main menu, Phone Settings for example. Press the Select soft key or the Right key to enter the menu.
- 3. If the menu contains sub-menus, **Language** for example, you can access them by scrolling using the Up or Down key and pressing the **Select** soft key or the Right key.

If the menu that you have selected contains further options, repeat this step.

То	Press the
scroll through the menus	<b>Up</b> or <b>Down</b> key, or use the Volume keys.
confirm the chosen setting	Select soft key or the Right key.

То	Press the
return to the previous menu level	Left key, <b>C</b> key or <b>5</b> soft key.
exit the menu without changing the settings	<b>ふ</b> <sup>©</sup> key.

### **Using Shortcuts**

The menu items, such as menu, sub-menus and options, are numbered and can be accessed quickly by using their shortcut numbers. The shortcut number is shown at the bottom right next to the 5 soft key on the display. Simply press the **Menu** soft key and enter the number of the menu you want.

Note: The numbers assigned to each menu are indicated on the list on page 67. They may not match the menu number on the phone, depending on the services supported by your SIM card.

Example: Accessing the Language menu.

- 1. Press the **Menu** soft key.
- 2. Press the 6 key for Phone Settings.
- 3. Press the 4 key for Language.

The languages available display.

#### List of Menu Functions

The following list shows the menu structure available and indicates the number assigned to each option and the page where you can find a description of each feature.

Note: If you use a SIM AT card that provides additional services, the SIM AT menu displays when you press the Menu soft key to enter Menu mode. For further details, see your SIM card instructions.

#### 1. Text Messages (see page 73)

- 1.1 Inhox
- 1.2 Outbox
- 1.3 Write New
- 1.4 Templates
- 1.5 Settings
  - 1.5.1 AWS SMS
    - 1.5.2 Setting 2\*
    - 1.5.3 Setting 3\*
    - 1.5.4 Setting 4\*
    - 1.5.5 Common Setting
- 1.6 Delete All
- 1.7 Memory Status
  - 1.7.1 SIM Memory
  - 1.7.2 PHONE Memory
  - 1.7.3 CB Memory\*
- 1.8 Voice Mail
  - 1.8.1 Connect to Voice Mail
  - 1.8.2 Voice Mail Number
- 1.9 Broadcast\*
  - 1.9.1 Read
  - 1.9.2 Receive
  - 1.9.3 Channel List
  - 1.9.4 Language

#### 2. Multimedia Messages (see page 85)

- 2.1 Inbox
- 2.2 Outbox
- 2.3 Draft
- 2.4 Write New

<sup>\*.</sup> Shows only if supported by your SIM card.

- 2.5 Templates
- 2.6 Delete All
- 2.7 Memory Status
- 2.8 Setup
- 2.9 MMS Profile

#### 3. Call Records (see page 99)

- 3.1 Missed Calls
- 3.2 Incoming Calls
- 3.3 Outgoing Calls
- 3.4 Delete All
- 3.5 Call Time
  - 3.5.1 Last Call
  - 3.5.2 Total Outgoing
  - 3.5.3 Total Incoming
  - 3.5.4 Life Time
  - 3.5.5 Reset Timers
- 3.6 Call Cost\*
  - 3.6.1 Last Call Cost
  - 3.6.2 Total Cost
  - 3.6.3 Max Cost
  - 3.6.4 Reset Counters
  - 3.6.5 Set Max Cost
  - 3.6.6 Price/Unit

#### 4. Camera (see page 103)

- 4.1 Take Photos
- 4.2 My Photos
- 4.3 Record Videos
- 4.4 My Videos
- 4.5 Delete All
- 4.6 Memory Status

#### 5. Sound Settings (see page 113)

- 5.1 Ring Tone
- \*. Shows only if supported by your SIM card.

- 5.2 Ring Volume
- 5.3 Alert Type
- 5.4 Keypad Tone
- 5.5 Message Tone
  - 5.5.1 SMS Tone
    - 5.5.2 SMS-CB Tone\*
    - 5.5.3 MMS Tone
- 5.6 Folder Tone
- 5.7 Power On/Off
- 5.8 Alerts on Call
- 5.9 Extra Tones

# 6. Phone Settings (see page 117)

- 6.1 Display Settings
  - 6.1.1 Wallpaper
  - 6.1.2 Front LCD
  - 6.1.3 Menu Style
  - 6.1.4 Back Light
  - 6.1.5 Service Light
  - 6.1.6 Graphic Logo
- 6.2 Greeting Message
- 6.3 Own Number
- 6.4 Language
- 6.5 Security
  - 6.5.1 PIN Check
  - 6.5.2 Change PIN
  - 6.5.3 Phone Lock
  - 6.5.4 Change Password
  - 6.5.5 Privacy
  - 6.5.6 FDN Mode\*\*
  - 6.5.7 Change PIN2\*\*
- 6.6 Extra Settings
- 6.7 Short Cut
- 6.8 TTY Setting
- 6.9 Reset Settings

<sup>\*.</sup> Shows only if supported by your SIM card.

<sup>\*\*.</sup> Shows only if supported by your SIM card.

# 7. Organizer (see page 127)

- 7.1 Alarm
  - 7.1.1 Once Alarm
  - 7.1.2 Daily Alarm
  - 7.1.3 Morning Call
  - 7.1.4 Remove Alarm
  - 7.1.5 Autopower
- 7.2 Calendar
- 7.3 Time & Date
  - 7.3.1 Set Time
  - 7.3.2 Set Date
  - 7.3.3 World Time
  - 7.3.4 Time Format
  - 7.3.5 Auto Update
- 7.4 Calculator
- 7.5 To Do List
- 7.6 Voice Memo
  - 7.6.1 Record
  - 7.6.2 Voice Memo List
  - 7.6.3 Delete All
  - 7.6.4 Memory Status
- 7.7 Currency Exchange

#### 8. Network Services (see page 139)

- 8.1 Call Forwarding
  - 8.1.1 Forward Always
  - 8.1.2 Busy
  - 8.1.3 No Reply
  - 8.1.4 Unreachable
  - 8.1.5 Cancel All
- 8.2 Call Waiting
- 8.3 Network Selection
- 8.4 Caller ID

# 9. Funbox (see page 143)

- 9.1 WAP Browser
  - 9.1.1 mMode

- 9.1.2 Bookmarks
- 9.1.3 http://
- 9.1.4 Settings
- 9.1.5 Clear Cache
- 9.1.6 Push Message
- 9.2 Games
- 9.3 Sounds
- 9.4 Images
- 9.5 Delete All
- 9.6 Memory Status
  - 9.6.1 Games
  - 9.6.2 Sounds & Images

# **Text Messages**

Short Message Service (SMS) allows you to send and receive short text messages to and from other GSM mobile phones. In addition, your phone supports the Enhanced Messaging Service (EMS), which enables you to include simple pictures, melodies and animated images in your messages. To use this feature, you must subscribe to your service provider's message service.

When the Text Message icon (

appears, you have received new text messages. If the memory is full, an error message displays and you cannot receive any new messages. Use the **Delete** option in each message box to delete the old ones.

# Inbox

This message box is used to store the messages that you have received.

When you enter this menu, the list of messages in the box displays with the senders' phone numbers or names, if available in your Phone Book.

- Select a message from the list by pressing the Up or Down key and press the View soft key to read the message contents.
- 2. To scroll through the contents, press the Up or Down key.
- To scroll to the previous or next message, press the \* or # key.

While reading a message, you can choose the following options by pressing the **Options** soft key:

**Delete**: allows you to delete the message.

**Send**: allows you to forward the message. For further details about how to send a message, see page 76.

**Reply**: allows you to reply to the sender by sending a text message.

Call Back: allows you to call the sender back.

**Cut Address**: allows you to extract the sender's number and URL, e-mail addresses or phone numbers from the message text.

**Move to Phone**: allows you to move the message from the SIM card to the phone's memory. This option is only available when you select a message stored in the SIM card.

**Move to SIM**: allows you to move the message from the phone's memory card to the SIM card. This option is only available when you select a message stored in the Phonebook.

**Select Objects**: allows you to save media objects, such as sounds or images, from the message into your phone. You can use the objects when writing a message. For details, see page 77.

#### Outbox

This message box is used to store the messages that you have already sent or will send.

When you enter this menu, the list of messages in the box displays with the recipients' phone numbers or names, if available in your Phone Book.

- Select a message from the list by pressing the Up or Down key and press the View soft key to read the message contents.
- To scroll through the contents, press the Up or Down key.
- To scroll to the previous or next message, press the \* or # key.

While reading a message, you can choose the following options by pressing the **Options** soft key:

**Delete:** allows you to delete the message.

**Send**: allows you to send/resend the message. For further details about how to send a message, see page 76.

**Cut Address**: allows you to extract the destination number and URL, e-mail addresses or phone numbers from the message text.

**Move to Phone**: allows you to move the message from the SIM card to the phone's memory. This option is only available when you select a message stored in the SIM card.

Move to SIM: allows you to move the message from the phone's memory card to the SIM card. This option is only available when you select a message stored in the Phonebook.

**Select Objects**: allows you to save media objects, such as sounds or images, from the message into your phone. You can use the objects when writing a message. For details, see page 77.

#### Write New

In this menu, you can write and send a text message.

Note: When you add media objects to the message, the number of characters you can enter decreases.

# **Creating a Simple Text Message**

- 1. Create your message.
  - For further details about entering characters, see page 51.
- When you finish entering the message, press the Options soft key. The following options are available:
- Send Only: allows you to send the message. The message is deleted after sending.
- Save and Send: allows you to save a copy of the message and then send the message. You can read the message in your Outbox.
- Save Only: allows you to save the message so that it can be sent later. You can read the message in your Outbox.

For further details about Text Formatting, Add Objects, Add Templates, Add Phonebook, Add Bookmark and Language options, see page 77.

Select Send Only or Save and Send, and press the Select soft key.

If you want to just save the message, select **Save Only**. After saving the message, the phone returns to the **Text Messages** menu screen.

- 4. If you select a save option, choose the memory location and press the **OK** soft key.
- 5. Enter a destination number and press the **OK** soft key. The message is sent.

Note: When the phone fails to send the message, it asks you if you want to retry. Press the OK soft key to confirm. Otherwise, press the Exit soft key to return to the Write New screen.

# **Creating a Message Using the Options**

- 1. Create a message.
- 2. Press the Options soft key.
- 3. Select one of the following options by using the Up and Down keys and pressing the **Select** soft key:
- Text Formatting: allows you to format the style of the text.
- For the Size attribute, Normal, Large and Small sizes are available. For the Underline and Strikethrough attributes, select On or Off.
- ◆These attributes can be combined.
- Add Objects: allows you to add a sound, melody, picture or animated image to the message. Select the category of the object to be added. In each category, you can select from the various factory-set items or choose an item received from other sources, such as the Internet or other phones.
- Add Templates: allows you to apply one of the preset message templates to the text. Select one of nine messages stored in the Templates menu (Menu 1.4). For further details, see page 78.

- Add Phonebook: allows you to add a Phone Book entry to your message. Select one from the list.
- Add Bookmark: allows you to add a web page address stored in your Bookmarks list (Menu 9.1.2).
   Select one from the list.
- ◆ Language: allows you to change the language to be used in the T9 input mode. Select the language you want to use.
- 4. Complete the message, and send or save it by following the procedure from step 2 on page 76.

# **Templates**

Using this menu, you can preset a maximum of nine messages that you use most frequently.

Select the message template you want and press the **Options** soft key.

The following options are available:

**Edit**: allows you to write a new message or edit the message.

Note: For further details about entering characters, see page 51.

**Send Message**: allows you to retrieve the message. Once you have completed the message, you can send, save and send, or simply save it. For further details about how to send a message, see page 76.

**Delete**: allows you to delete the message. You are asked to confirm the deletion by pressing the **Yes** soft key.

# **Settings**

In this menu, you can set up default message information. A setting group is a collection of settings

required to send messages. The number of setting groups available depends on the capacity of your SIM card.

#### Note:

- The setting options available in this menu may be different depending on your service provider.
- The last setting you accessed is automatically activated for sending messages.

**AWS SMS** (default setting)/**Setting x** (where **x** is the setting group number): each group has its own sub-menu.

<u>Service Center</u>: allows you to store or change the number of your message center, which is required when sending messages. You must obtain this number from your service provider.

<u>Default Destination</u>: allows you to store the default destination number. The number automatically displays on the Destination screen when you create a message.

<u>Default Type</u>: allows you to set the default message type to <u>Text</u>, <u>Fax</u>, <u>Email</u> or <u>Paging</u>. The network can convert the messages into the selected format.

<u>Default Validity</u>: allows you to set the length of time your text messages are stored in the message center while attempts are made to deliver them.

<u>Setting Name</u>: allows you to give a name to the setting group currently being defined.

Common Setting: The following options are available: Reply Path: allows the recipient of your message to send you a reply through your message center, if your network supports this service.

<u>Delivery Reports</u>: allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.

Bearer Selection: allows you to choose either **GSM** or **GPRS**, depending on your network.

Character Support: allows you to choose either **GSM-Alphabet**, **Uni-Code** or **Automatic**, depending on your network. If you select Uni-Code and your recipient's phone does not support it, your recipient may not be able to read your message.

#### **Delete All**

This menu allows you to delete all of the text messages in each message box. You can also delete all of your messages at one time.

То	Press the
select a message box to clear	Up or Down key. To delete all of your messages, select <b>All Messages</b> .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
delete the marked messages	Delete soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

# **Memory Status**

This menu shows how many messages are currently stored in the SIM, phone and CB (cell broadcast) memories.

#### **Voice Mail**

This menu allows you to access your voice mailbox, if your network supports this service.

The following options are available:

**Connect to Voice Mail**: before using the Voice Mail feature, you must enter the voice server number obtained from your service provider; see menu option **1.8.2**. You can then select this option and press the **OK** soft key to listen to your messages.

You can quickly connect to the voice server by pressing and holding the 1 key in Idle mode.

**Voice Mail Number**: allows you to change the voice mail server number, if necessary.

То	Press the
enter the server number	corresponding numeric keys.
correct a digit	C key.
move the cursor to the left or right without clearing a digit	Left or Right key.

Note: Voice Mail is a network feature. Please contact your service provider for further details.

#### **Broadcast**

This network service allows you to receive text messages on various topics, such as the weather or traffic. Cell Broadcast (CB) messages display as soon as they are received, provided that:

- the phone is in Idle mode.
- the Receive option is set to Enable.
- the message channel is currently active on the channel list.

This menu may not be available depending on your SIM card.

The following options are available:

**Read:** lets you view the received message. The **Volatile** box displays the messages from the network, but loses its contents as soon as the phone is switched off. Scroll through the message by using the Up and Down keys. While reading a message, press the **Save** soft key to store the message in the **Archive** box for later retrieval.

**Receive:** allows you to enable or disable the reception of broadcast messages.

**Channel List:** allows you to indicate the channels from which you wish to receive broadcast messages. The following options are available:

<u>Select</u>: use to enable or disable channels on the list by marking or unmarking them respectively. A check mark displays in front of each selected channel.

<u>Add Channel</u>: use to enter the ID and title for a new channel.

Delete: use to remove a channel from the list.

<u>Edit</u>: use to change the ID and title of an existing channel.

**Language**: allows you to select your preferred language to display cell broadcast messages. Please contact your service provider for further details.

# **Multimedia Messages**

The menu allows you to use the Multimedia Message Service.

Multimedia Message Service (MMS) is a messaging service very similar to Short Message Service (SMS). It provides automatic and immediate delivery of personal multimedia messages from phone to phone or from phone to e-mail.

In addition to the familiar text content of text messages, multimedia messages can contain images, graphics, voice and audio clips. An MMS message is a multimedia presentation in a single entry. It is not a text file with attachments.

Using the MMS feature, your phone can receive and send messages that contain multimedia files, such as your photos, videos and voice memos you recorded. This function is available only if it is supported by your service provider. Only phones that offer multimedia message features can receive and display multimedia messages.

#### Inbox

# Viewing a Message When You Receive it

When a new multimedia message comes in, the display shows the MMS Message icon ( ) and a text notification along with the sender's number.

 Press the **Select** soft key to view brief information about the message, such as the sender's number, the message size and the subject.

- If you want to view the message later in the Inbox, press the **Exit** soft key.
- 2. To scroll through the message information, press the **Up** or **Down** key.
- Press the **Options** soft key to use the following options:
- Retrieve: retrieves the message from the MMS server.
- Delete: deletes the message.
- Properties: shows you detailed information about the message.
- 4. To read the message, press the **Select** soft key when **Retrieve** is highlighted.
  - Your phone retrieves the message contents from the server and display it.
- To scroll through the message, press the Up or Down key.
- 6. When you are finished, press the \( \shi\_10 \) key.

# **Viewing a Received Message in the Inbox**

When you access the **Inbox** menu (**Menu 2.1**), the list of multimedia, video or voice note messages you received displays with the senders' phone numbers, if they are available in your Phone Book, or subjects. The icons on the left tell you the status of the messages.

♦ 

Messages that have been opened.

- ◆ ■: Messages that are unopened.
- Select a message on the list and press the Select soft key.

The message displays and scrolls to the next page, if it has one, after a specified time; for details about setting the time, see page 93.

Press the **OK** soft key to go to the message view screen.

Or, the display will automatically switch to the screen.

To scroll through the message, press the Up or Down key.

If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

While viewing a message, you can choose the Message options by pressing the **Options** soft key. If you are viewing a new message, the options are the same as when you view a message as soon as you receive it. See page 85.

When you are reviewing a message retrieved from the MMS server, the following options are available:

**Delete**: deletes the message.

**Reply**: allows you to reply to the sender by sending a text, multimedia or voice note message, depending on the type of the received message.

**Callback:** allows you to call the sender back. **Cut Address:** allows you to extract the sender's number or e-mail address and URL, e-mail addresses or phone numbers from the message text.

**Send**: allows you to forward the message to another person.

**Save Picture**: allows you to save a picture from the message into your phone. They are stored in the **Images** folder (**Menu 9.4**).

**Save Sound:** allows you to save a sound from the message into your phone. They are stored in the **Sounds** folder (**Menu 9.3**).

**Properties**: shows you information about the message, such as the subject, sender's e-mail address or phone number, message size, transaction ID, message class, MMS version, recipient's e-mail address or phone number, priority and the time and date when the message was received.

#### Outbox

When you access this menu, the list of the picture, video or voice note messages you sent or saved displays. The icons on the left tell you the status of the messages.

- ♦ Messages currently being sent
- ♦ M: Messages sent
- ♦ Messages your phone couldn't send
- ♦ Messages to be sent
- Messages deferred
- Select a message on the list and press the Select soft key.

The message displays and scrolls to the next page, if it has one, after a specified time; for details about setting the time, see page 93.

Press the **OK** soft key to go to the message view screen.

Or, the display will automatically switch to the screen.

To scroll through the message, press the Up or Down key.

If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

While viewing a message, you can choose the following options by pressing the **Options** soft key:

**Delete**: deletes the message.

**Cut Address:** allows you to extract the destination numbers or e-mail addresses and URL, e-mail addresses or phone numbers from the message text.

**Send**: allows you to resend the message.

**Edit Message**: allows you to change the message contents, sound, photo or text.

**Properties:** shows you information about the message, such as the status, subject, sender's e-mail address or phone number, message size, transaction ID, MMS version and the time and date when the message was sent.

#### **Draft**

After creating a multimedia message, you can store it in this message box for later sending.

For further details about viewing a message, see "Outbox" on page 88.

#### **Write New**

This menu allows you to create a new multimedia message and then send it to multiple destinations.

# **Creating and Sending a Multimedia Message**

 Enter the subject of your message and press the OK soft key.

For further details about entering characters, see page 51.

- When Add Here highlights, press the Options soft key and add the message contents using one of the following options:
- Add Text: enter the message text and press the OK soft key.
- Add My Photo: allows you to add a photo you took using the camera on your phone. Select New Photo to take a new photo, or My Photos to add one of the photos stored in the phone. For further details about using the camera, see page 103.
- Add Picture: allows you to add a photo stored in the Images folder (Menu 9.4). Choose a photo and press the Select soft key. You may not be able to add some downloaded images if they are not in the correct format.
- Add Sound: allows you to add a sound file. Select Record to record a new voice memo, or Sound List to add one of the sounds in the Sounds folder (Menu 9.3) or Voice Memo List (Menu 7.6.2). You may not be able to add some downloaded sounds if they are not in the correct format.
- Send: allows you to send the message. Use this option when you finish creating the message.

- Save: saves the message in the Draft (Menu 2.3) or Templates (Menu 2.5) box for later use. This option is activated after you add content to the message.
- ◆ Settings: allows you to change the message settings. For further details about each setting option, see page 93. After changing the settings, you need to press the ★ soft key or the C key to go to back to the options screen.
- ◆ Add Destination: allows you to enter destination numbers or addresses. See steps 6 to 11 starting from page 92. After adding them, you need to press the ★ soft key or the C key to go to back to the options screen.
- Preview: shows your message as it will display on the recipient's phone.

You can add text, an image and a sound once for each page.

- Repeat step 2 until you finish creating your message.
- 4. If you want to change the added items, press the Up or Down key to highlight one and press the **Options** soft key. The following options are available:

The options available are different depending on whether the item you select on the message screen is text, an image, a sound, a video or the Page field.

- Edit Text/Picture/Sound: allows you to change the text or replace the photo, voice memo, video with another one.
- Add Page: allows you to add more pages. After you add a page, the display shows you the current page number and memory space used for the

- page. You can move to each page using the Left or Right key on the message screen.
- Delete: deletes the item from your message.
- ◆ **Duration**: allows you to set when an image or a sound displays on the message presentation screen and a length of time it will display for. When the message is opened, the display shows the item after a specified time in **Set Start Time** and scrolls to the next item after a specified time in **Set Duration**.
- ◆ Send: allows you to send the message.
- ◆ Save: saves the message in the Draft (Menu 2.3) or Templates (Menu 2.5) box for later use.
- Settings: allows you to change the message settings. For further details about each setting option, see page 93.
- Add Destination: allows you to enter destination addresses. See steps 6 to 11.
- Preview: shows your message as it will display on the recipient's phone.
- When you have finished creating the message, choose **Send** from the options and press the **Select** soft key.
- Select a destination type, To, Cc or Bcc and press the Select soft key.
- Choose one of the following options and press the Select soft key:
- Phone Number: allows you to enter the phone number you want.
- E-Mail Address: allows you to enter the e-mail address of the recipient.
- Phone Book: allows you to retrieve a number from your Phone Book.

- 8. Enter a number or an e-mail address, or select a number from your Phone Book.
- 9. When the correct number or address displays, press the **OK** soft key.
- 10.To add a destination, press the **Select** soft key when **Add Destination** highlights. Repeat from step 7.

If you want to edit the destinations, select one and press the **Select** soft key. You can change or delete it.

11.To enter additional numbers or addresses to the other destination types, press the **C** key or the **5** soft key and repeat steps 6 through 10.

You can enter up to 10 destinations each for **To, Cc** and **Bcc** 

12. When you are finished entering the destinations, select **Send Message** and press the **Select** soft key.

Your phone sends the message.

# **Using the Message Setting Options**

When you select **Settings** from the message options, the following options are available:

**Delivery Report:** when this option is enabled, the network informs you whether or not your message has been delivered.

**Read Reply:** when this option is enabled, your phone sends a request for a reply along with your message to the recipient.

**Hide ID**: when this option is enabled, your phone number does not display on the recipient's phone.

**Expiry Date**: you can select the length of time your messages are stored in the message center after they are sent.

**Delivery Time**: you can set a delay time before the phone sends your messages.

**Priority**: you can select the priority level of your messages.

# **Templates**

This menu stores messages you saved as templates so that you can use them to make new messages.

- Scroll through the template list using the Up and Down keys.
- 2. When the message template you want highlights, press the **Select** soft key.
- 3. Press the **OK** soft key to use the following options, or the display will automatically show the options after a specified time:
- Edit: allows you to send a message using the template. For further details about how to send a message, see page 90.
- Delete: allows you to delete the message. You are asked to confirm the deletion by pressing the Yes soft key.
- 4. Press the \( \bar{\pi} \bar{\pi} \) key to return to Idle mode.

#### **Delete All**

This menu allows you to delete all of the multimedia messages in each message box. You can also delete all of your messages at one time.

То	Press the
select a message box to clear	Up or Down key. To delete all of your messages, select <b>All Messages</b> .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
delete the marked messages	Delete soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

# **Memory Status**

You can check the amount of memory being used and the memory remaining for multimedia messages.

The display shows the total space, including the free and used space. It also shows how much space is currently occupied by each message box when you press the **Next** soft key.

# Setup

You can change the default settings for sending or receiving multimedia messages.

The following options are available:

**Delivery Report**: when this option is enabled, the network informs you whether or not your message has been delivered.

**Read Reply**: when this option is enabled, your phone sends a request for a reply along with your message to the recipient.

**Auto Download**: you can set whether or not your phone retrieves new incoming messages from the MMS server without notifications. When this option is enabled, the phone automatically retrieves new messages from the server. As soon as you receive a message, you can use more options while you are reading. See page 87 for further details about the options.

**Message Acceptance**: you can specify the category of messages you want to receive.

**Hide ID**: when this option is enabled, your phone number does not display on the recipient's phone.

**Expiry Date**: you can select the length of time your messages are stored in the message center after they are sent.

**Delivery Time**: you can set a delay time before the phone sends your messages.

**Priority**: you can select the priority level of your messages.

**Report Allowed**: when this option is enabled, the sender of an incoming message receives a delivery report from the network.

**Page Duration**: you can set the length of time one page of a received message displays on the

message presentation screen. After a specified time, the display automatically scrolls to the next page.

#### **MMS Profile**

In this menu, you can configure various network settings that are required when you send or receive multimedia messages.

#### Note:

- The last profile you accessed is automatically activated for sending messages.
- 2.If you change the MMS settings without first checking with your service provider, the MMS feature may not work properly.

The following options are available for each profile: **Profile Name**: enter a name that you wish to assign to the MMS server.

**Connection URL**: enter the address of your MMS server.

**Security**: select a data transmission mode. Choose **Secure** to protect your data against unauthorized access; otherwise, choose **Non-Secure**.

**IP Address**: enter the gateway address required to connect to the MMS server.

**User Name**: enter the user ID required to connect to the MMS server.

**Password**: enter the password required to connect to the MMS server.

**APN**: enter the access point name used for the address of the MMS server.

For further details, contact your service provider.

# **Call Records**

In this menu, you can view the:

- calls you missed, received or dialed.
- length of your calls.
- cost of your calls.

#### Note:

- 1. You can access the numbers in the three types of call records by pressing the key in Idle mode.
- 2.The number of call records the phone can store may be different depending on your SIM card.

#### **Missed Calls**

This menu lets you view the last 20 numbers of the calls you received, but did not answer.

The number or name, if available, displays together with the time and date when the call was received. By pressing the **Options** soft key, you can:

- edit the number, if available, and dial it or save it in Phone Book.
- delete the call from the list.

You can also dial the number by pressing the **~** key.

# **Incoming Calls**

This menu lets you view the last 20 numbers of the calls you received.

The number or name, if available, displays together with the time and date when the call was received. By pressing the **Options** soft key, you can:

 edit the number, if available, and dial it or save it in Phone Book. delete the call from the list.

You can also dial the number by pressing the **n** key.

# **Outgoing Calls**

This menu lets you view the last 20 numbers you dialed.

The number or name, if available, displays together with the time and date when the call was made.

By pressing the **Options** soft key, you can:

- edit the number and dial it or save it in Phone Book.
- delete the call from the list.

You can also dial the number by pressing the **n** key.

#### **Delete All**

This menu allows you to delete all of the records in each call record. You can also delete all of your call records at one time.

То	Press the
select a call record to clear	Up or Down key. To delete all of your call records, select <b>All Calls</b> .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
delete the marked records	Delete soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

#### **Call Time**

This menu lets you view the timers for calls you made and received.

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding-off for billing purposes and so on.

The following timers are available:

Last Call: length of the last call.

**Total Outgoing:** total length of all calls you made

since the timer was last reset.

**Total Incoming:** total length of all calls you received since the timer was last reset.

**Life Time:** shows the number and total duration of all calls made to or from your phone since the phone was shipped from the factory.

**Reset Timers**: option used to reset the call timers. You must first enter the phone password and then press the **OK** soft key.

Note: The password is preset to "00000000" at the factory. To change this password, see page 121.

#### **Call Cost**

This network feature lets you view the cost of calls. This menu may not be available depending on your SIM card.

The following options are available:

Last Call Cost: cost of the last call you made.

**Total Cost**: total cost of all calls you made since the cost counter was last reset. If the total cost exceeds the maximum cost set in the **Set Max Cost** option, you

can no longer make any calls until you reset the counter.

**Max Cost**: maximum cost set in the **Set Max Cost** option. See below.

**Reset Counters:** option used to reset the cost counter. You must first enter your PIN2 (see page 161) and then press the **OK** soft key.

**Set Max Cost:** option used to enter the maximum cost that you authorize for your calls. You must first enter your PIN2 (see page 161) and then press the **OK** soft key.

**Price/Unit**: option used to set the cost of one unit; this price per unit is applied when calculating the cost of your calls. You must first enter your PIN2 (see page 161) and then press the **OK** soft key.

# Camera

Using the camera module in your phone, you can take photos of people or events while on the move. Additionally, you can send photos to other people in a multimedia message or set one as a wallpaper. You can also record videos using your phone as a camcorder.

# Note: You can quickly enter the Camera menu by pressing the UP key in Idle mode.

Do not take photos of people without their permission.
Do not take photos in a place where cameras are not allowed.
Do not take photos in a place where you may interfere with another person's privacy.

#### **Take Photos**

CAUTION:

This menu allows you to take a photo. Your camera produces JPEG photos.

#### Notes:

- 1. When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.
- 2.When you take a photo in bright lighting conditions indoors, white lines may appear on the display. To clear this problem, press the  $\bf 6$  key. If you want to take a photo outdoors, you need to exit this mode. Press the  $\bf 6$  key again.

#### Taking a Photo with the Folder Open

1. Access the **Take Photos** menu to turn the camera on. Or you can press and hold the Camera key (a) on the right side of the phone in Idle mode.

The image to be captured appears on the display.

2. Adjust the image by aiming the camera at the subject.

3.

То	Press the
adjust the brightness of the image	Left and Right keys.
zoom in or out	Up and Down keys.
flip vertically or horizontally	Volume keys.
use the camera options	right soft key.
change the camera mode	1 key.
change the display size	<b>2</b> key.
change the image quality	<b>3</b> key.
change the shot mode	<b>4</b> key.
apply effects	<b>5</b> key.

То	Press the
use a frame	<b>7</b> key.
set a delay time	8 key. Press the left soft key to take the picture using the delay function.
move to the My Photos or My Videos menu	<b>9</b> key.

- 4. Press the Camera key on the right side of the phone or the left soft key to take the photo.
- 5. Press the **Save** soft key.

To discard the photo and return to the capture mode, press the **Cancel** soft key.

То	Press the
use the photo options	<b>Options</b> soft key. For further details, see page 106.
return to Capture mode	NewPhoto soft key or C key.
return to Idle mode	<b>∽</b> \ <sup>©</sup> key.

When you press the **Options** soft key after saving a photo, the following options are available:

**Send:** allows you to send the photo using a multimedia message. For further details, see page 90.

**Set as Wallpaper:** allows you to set the image as your wallpaper for the idle screen.

**Set as Caller ID**: allows you to set the photo as a caller ID image for Phone Book entries.

**Protection:** allows you to protect the photo from being deleted.

**Delete:** deletes the photo.

**Rename:** allows you to change the name of the photo.

**Properties**: shows the properties of the photo, such as the time and date it was saved, file size, photo size, protection status, file format and file name.

## **Using the Camera Options**

In Capture mode, you can use various options by pressing the right soft key.

То	Press the
scroll to an option	Up or Down key.
select the highlighted option	Select soft key or the Right key.
return to Capture mode	C key or 5 soft key.

The following options are available:

**Effects**: allows you to change the color tone or apply special effects to the photo.

**Frames**: allows you to use a decorated frame. Select a frame from the list using the Navigation keys.

**Multi-Shot**: allows you to take a series of action stills. Select the capture speed, **High Speed** or **Normal** 

**Speed**, and the number of photos the camera will take. When you press the Camera key, the camera takes photos successively.

After taking photos, press the SaveAll soft key to save all of them or the **Save** soft key to save the selected one.

**Rotation**: rotates the photo. You can reverse the photo as a mirror image or flip the photo vertically.

**Self Timer**: allows you to have a delay time before the camera takes the photo. Select the length of time you want. When you press the Camera key, the camera takes the photo after a specified time.

**Settings**: allows you to change the options for taking a photo.

<u>Photo Size</u>: allows you to select a photo size. Once you change this setting, it is saved for the next shots. <u>Photo Quality</u>: allows you to change the image quality. Once you change this setting, it is saved for the next shots.

#### **Taking a Photo with the Folder Closed**

- 1. Close the folder.
- 2. To turn the camera on, press and hold the Camera key on the right side of the phone.
  - The image to be captured appears on the external display.
- Adjust the image by aiming the camera at the subject.
- 4. Press the Camera key to take the photo.

The photo is automatically saved in the **My Photos** menu (**Menu 4.2**).

## **My Photos**

This menu allows you to review your photos.

When you access this menu, your phone displays them in Thumbnail mode, which shows all your photos as smaller images. Use the Navigation keys to scroll through the photos.

To view photos on the full screen, select the photo you want to view and then press the **View** soft key. In this mode, you can scroll through the photos by using the Left and Right keys. To go back to Thumbnail mode, press the **Multi** soft key.

Press the **Options** soft key to use the following options:

**Send**: allows you to send the photo using a multimedia message. For further details, see page 90.

**Set as Wallpaper**: allows you to set the photo as your wallpaper on the idle screen.

**Set as Caller ID**: allows you to set the photo as a caller ID image for Phone Book entries.

**Protection**: allows you to protect the photo from being deleted.

**Delete**: allows you to delete the photo.

**Rename**: allows you to change the name of the photo.

**Properties**: shows the properties of the photo, such as the time and date it was saved, file size, photo size, protection status, file format and file name.

#### **Record Videos**

You can record a video that is currently displayed on the camera screen and save it as a video file.

## **Recording a Video**

1. When the camera turns on, adjust the image by aiming the camera at the subject.

2.

То	Press the
change the camera mode	1 key.
adjust the brightness of the image	Left and Right keys.
zoom in or out	Up and Down keys.

- Press the left soft key or the Camera key to start recording.
- 4. When you are finished, press the left soft key or Camera key. The phone automatically stops when the recording time expires. The length of the video may vary depending on the lighting, background, and recording resolution.
- 5. Press the **Save** soft key. The video is saved and the display returns to Record mode.

## My Videos

When you access this menu, the thumbnail images of the videos display.

To play a video:

- Press the Navigation keys to scroll to the video you want to view.
- 2. Press the **Play** soft key to start playing the video.

То	Press the
pause the playback	Pause soft key.
resume	Continue soft key.
stop	<b>Stop</b> soft key or <b>C</b> key.
return to Idle mode	<b>ふ</b> √ <sup>©</sup> key.

Press the **Options** soft key to use the following options:

**Rename**: allows you to change the file name.

**Delete:** deletes the current video file.

**Protection**: allows you to protect the video from

being deleted.

**Properties**: show the properties of the video file, such as the time and date it was saved, file size, protection status and playing time.

#### **Delete All**

This menu allows you to delete each type of the photos or videos saved in your phone. You can also delete all of your photos and videos at one time.

, t	
То	Press the
select a photo or video type to clear	Up or Down key. To delete all of your photos and videos, select <b>All</b> .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
delete the marked photos or (and) videos	Delete soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

## **Memory Status**

You can check the amount of the memory being used and the memory remaining in the camera. The display shows the total, free and used space for photos. It also shows the space information for videos when you press the **Next** soft key.

# **Sound Settings**

You can use the Sound Settings feature to customize various settings, such as the:

- ring melody, volume and type.
- sounds made when you press a key, receive a message, open/close the folder or switch your phone on or off.
- alert tone made every minute during a call, when you make an error or when your call is connected to the system.

## **Ring Tone**

This menu allows you to select a ring melody.

You can choose between many different melodies. If you have downloaded sounds from the Internet or EasyGPRS program, you can use them in this menu.

## **Ring Volume**

This menu allows you to adjust the ring volume to one of five levels.

Use the Up and Down keys or the Volume keys on the left side of the phone to increase or decrease the volume.

## **Alert Type**

This menu allows you to specify how you are to be informed of incoming calls or alarms you set.

The following options are available:

**Light Only**: the service light flashes; the phone neither rings nor vibrates.

**Melody**: the phone rings using the selected ring tone or alarm melody.

Vibration: the phone vibrates but does not ring.

**Vibra+Melody**: the phone first vibrates three times and then starts ringing.

## **Keypad Tone**

This menu allows you to select the tone that the phone sounds when you press a key.

To turn the sound off, select Off.

#### Message Tone

This menu allows you to select how the phone informs you that a new message has been received.

#### **SMS Tone**

The following options are available for alerting you to new SMS messages:

Off: the phone does not use an SMS tone.

**Light Only:** the service light flashes.

Vibration: the phone vibrates.

Single Beep: the phone beeps once.

**SMS Tone X**: the phone uses one of several SMS tones.

#### **SMS-CB Tone**

This menu may not be available depending on your SIM card.

The following options are available for alerting you to new cell broadcast messages:

Off: the phone does not use a CB tone.

**Light Only:** the service light flashes. **Vibration:** the phone vibrates.

**Single Beep:** the phone beeps once.

**SMS-CB Tone X**: the phone uses one of several CB

tones.

#### **MMS Tone**

The following options are available for alerting you to new multimedia messages:

Off: the phone does not use a MMS tone.

**Light Only:** the service light flashes. **Vibration**: the phone vibrates.

**Single Beep**: the phone beeps once.

**MMS Tone X**: the phone uses one of several MMS tones.

#### **Folder Tone**

This menu allows you to select the tone that the phone sounds when you open or close the folder. Select either **Future** or **Crystal**.

To turn the sound off, select Off.

#### Power On/Off

This menu allows you to select the melody that the phone sounds when it is switched on and off. Select either **Classical** or **Cheerful**.

To turn the sound off, select Off.

#### **Alerts on Call**

This menu option allows you to turn off the following alerts during a call:

- Alarm
- Text messages
- MMS
- SMS
- Low Battery
- WAP Push

The default setting is On. To turn off this setting, select the Off setting and press the **Select** soft key.

#### **Extra Tones**

You can customize additional tones used for the phone.

To turn a given tone	Press the
on	On soft key. A check mark displays in front of the option.
off	Off soft key again. The check mark no longer displays.

The following options are available:

**Error Tone**: sets whether or not the phone informs you when you make a mistake.

**Minute Minder**: sets whether or not the phone beeps every minute during an outgoing call to keep you informed of the length of your call.

**Connect Tone**: sets whether or not your phone beeps when your call is connected to the system.

# **Phone Settings**

Many different features of your phone can be customized to suit your preferences. All of these features are accessed in the **Phone Settings** menu.

## **Display Settings**

In this menu, you can change various settings for the display or backlight.

#### **Wallpaper**

This menu allows you to change the background image or the color of the text to be displayed in Idle mode.

The following options are available:

**Wallpaper**: you can select a background image to be displayed on the idle screen.

To change the background image:

 Scroll through the list by pressing the Up or Down key.

You have various preset images available. You can also select a blank background or any images downloaded from the Internet and the EasyGPRS program or received in messages.

- 2. Press the **Select** soft key when the image you want highlights.
- 3. When the image displays, press the **Select** soft key to display it on the idle screen.

**Text Display**: you can specify whether or not the phone displays the time and date on the idle screen. **Text Color**: you can select the color of the text to be displayed on the idle screen.

#### **Front LCD**

This menu allows you to select the color of an image to be displayed on the external display.

## **Menu Style**

This menu allows you to select the menu display style. You can choose either **Bar Style** or **Page Style**.

#### **Back Light**

You can select the length of time the backlight is on for. The backlight turns on when you press a key or receive a call or message and remains on for the specified length of time.

## **Service Light**

This menu allows you to select whether or not the service light is used. It also allows you to select a color in which the service light flashes.

Select one of the seven color settings. When the phone is ready for use, the service light flashes in the appropriate color.

If you do not wish to use the service light, select Off.

#### **Graphic Logo**

This menu allows you to display your service provider's logo instead of its name.

**Off**: the service provider's name displays in Idle mode.

**On**: the service provider's logo stored in your phone displays in Idle mode; if no logo has been stored, the service provider's name displays.

## **Greeting Message**

This menu allows you to set a greeting to be displayed briefly when the phone is switched on.

То	Press the
clear the existing message	C key and hold it down until the message is cleared.
enter a new message	appropriate alphanumeric keys.
change the text input mode	right soft key.

For further details about entering characters, see page 51.

#### **Own Number**

This function is a memory aid, which you can use to check your own phone number if you need to do so. You can:

- assign a name to each of your own phone numbers registered on your SIM card.
- edit the names and numbers.

Any changes made here do not in any way affect the actual subscriber numbers on your SIM card.

## Language

You can select a display language. When the language option is set to **Automatic**, the language is automatically selected according to the language of the SIM card used.

## **Security**

The Security feature enables you to restrict the use of your phone to others and the types of calls.

Various codes and passwords are used to protect the features of your phone. They are described in the following sections. Also see pages 159-161.

#### **PIN Check**

When the PIN Check feature is enabled, you must enter your PIN each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before disabling the PIN Check feature, you must enter your PIN.

The following options are available:

**Disable**: the phone connects directly to the network when you switch it on.

**Enable**: you must enter the PIN each time the phone is switched on.

## **Change PIN**

This feature allows you to change your current PIN to a new one, provided that the PIN Check feature is enabled. You must enter the current PIN before you can specify a new one.

Once you have entered a new PIN, you are asked to confirm it by entering it again.

#### **Phone Lock**

When the Phone Lock feature is enabled, the phone is locked and you must enter an 8-digit phone password each time the phone is switched on. The password is preset to "00000000" at the factory. To change the phone password, see the **Change Password** menu (**Menu 6.5.4**) on the following page. Once the correct password has been entered, you

Once the correct password has been entered, you can use the phone until you switch it off.

The following options are available:

**Disable**: you are not asked to enter the phone password when you switch the phone on.

**Enable**: you are required to enter the phone password when you switch the phone on.

#### **Change Password**

The Change Password feature allows you to change your current phone password to a new one. You must enter the current password before you can specify a new one.

The password is preset to "00000000" at the factory. Once you have entered a new password, you are asked to confirm it by entering it again.

#### **Privacy**

Using this menu, you can lock your contents, such as multimedia messages, photos, video clips, voice memo, downloaded images and sounds. Once you have locked the contents, you must enter the phone password to access the associated menus.

То	Press the
select an item to lock	Up or Down key. To lock all of your contents, select All.
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
lock the marked items	<b>OK</b> soft key.

When the phone asks for the phone password, enter the password and press the **OK** soft kev.

Note: The password is preset to "00000000" at the factory. To change this password, see page 121.

#### **FDN Mode**

FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

The following options are available:

Disable: you can call any number.

**Enable**: you can only call phone numbers stored in

Phone Book. You must enter your PIN2.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

## **Change PIN2**

The Change PIN2 feature allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one.

Once you have entered a new PIN2, you are asked to confirm it by entering it again.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

## **Extra Settings**

You can turn the automatic redialing or answering features on or off.

To turn a feature	Press the
on	On soft key. A check mark displays in front of the option.
off	Off soft key. The check mark no longer displays.

The following options are available:

**Auto Redial:** when this option is checked, the phone makes up to ten attempts to redial a phone number after an unsuccessful call.

Note: The interval between two attempts varies.

Active Folder: when this option is checked, you can simply open the folder to answer a call.

When it is unchecked, you must open the folder and press a key to answer a call, depending on the setting of the **Anykey Answer** option. See below.

Anykey Answer: when this option is checked, you can answer an incoming call by pressing any key, except the  $\mathbf{r}^{0}$  key and the **Reject** soft key. To reject the call, press the  $\mathbf{r}^{0}$  key or the **Reject** soft key. When this option is unchecked, you can only press

the **key** or **Accept** soft key.

#### Short Cut

The Navigation keys can be used as shortcut keys. In Idle mode, they allow you to access specific menus directly.

The Up key is fixed as a shortcut to the **Camera** menu. In this menu, you can change the shortcuts assigned to the Down, Left and Right keys. To assian a shortcut to a kev:

- 1. Select the key to be used as a shortcut key by pressing the Up or Down key and press the Select soft kev.
- 2. Select the menu to be assigned to the key by pressing the Up or Down key.

To deactivate a shortcut key, select the **None** option.

3. Press the **Select** soft key to save the selection.

## **TTY Setting**

TTY, a TDD or Text Telephone, is a telecommunications device that allows people who are deaf or hard of hearing, or who have speech or language disabilities, to communicate by telephone. In this menu, you can enable your phone's TTY feature. The following options are available:

**Enable**: allows you to communicate with other TTY users. You can communicate with other TTY users by connecting certain

portable TTY terminal models to your phone using an optional adapter.

**Disable**: does not allow you to communicate with other TTY users.

## **Reset Settings**

You can easily reset your phone to its default settings. To reset your phone:

- 1. Select the **Reset Settings** menu.
- Enter the 8-digit phone password and press the OK soft key.

Note: : The password is preset to "00000000." To change this password, see page 121.

## **Organizer**

The Organizer feature enables you to:

- set an alarm so that the phone rings at a specific time, such as to remind you of an appointment.
- view the calendar and organize your schedule.
- set the current time and date.
- use the phone as a calculator for basic mathematical equations or currency exchange operations.
- define a list of things to do.
- record voice memos.

#### **Alarm**

This feature allows you to:

- set the alarm to ring at a specific time.
- set the phone to switch on automatically and ring the alarm even if the phone is switched off.

The following options are available:

**Once Alarm**: the alarm rings only once and is then deactivated.

**Daily Alarm**: the alarm rings every day at the same time.

**Morning Call**: the alarm rings to wake you up in the morning.

To set an alarm:

- Choose the type of alarm to be set and press the Select soft key.
- 2. Enter the time for the alarm to sound.

Your phone is preset to use 12-hour format. To change the format, see page 132.

If you want to use the alarm options, press the **Options** soft key. The following options are available:

- Remove Alarm: deactivates the current alarm.
- Alarm Sound Set: allows you to select the alarm melody.
- 3. Press the **OK** soft key.
- Select AM or PM for 12-hour format and press the Select soft key.
- If you select Morning Call in step 1, choose the repeat option, Monday to Friday or Monday to Saturday, and press the Select soft key.

To stop the alarm when it rings, open the folder and press the **Exit** soft key.

**Remove Alarm**: deactivates all alarm settings. **Autopower**: when this option is set to **Enable**, the alarm rings at the specified time, even if the phone is switched off.

If the menu option is set to **Disable** and the phone is switched off at the specified time, the alarm does not ring.

#### Calendar

With the Calendar feature, you can:

- consult the calendar to check your memos.
- write memos to keep track of your schedule.
- set an alarm to act as a reminder.

#### **Consulting the Calendar**

When you select the **Calendar** menu (**Menu 7.2**), the calendar displays with today's date highlighted. The following options are available when you press the **Options** soft key:

**Search All**: displays all of the memos, starting with the oldest regardless of the day. To scroll through the memos, press the Up or Down key.

**Delete All**: allows you to delete all of the memos. You are asked to confirm your action.

Go to Date: allows you to go to a specific date.

**Exit**: exits the Calendar feature and returns to Idle mode.

#### **Writing a Memo**

You can make up to 100 memos. To write or edit a memo on a specific date:

 Select a date on the calendar, using the Navigation keys.

To skip to the previous or next month, press the Volume keys on the left side of the phone.

2. Press the **Select** soft key.

An empty memo screen displays allowing you to enter your memo.

3. Enter your memo and then press the **OK** soft key.

For further details about entering characters, see page 51.

- If you want the alarm to ring on the chosen day, press the Yes soft key.
  - Otherwise, press the **No** soft key. The memo is saved.
- 5. If you press the **Yes** soft key, set the time for the alarm and press the **OK** soft key.
  - Your phone is preset to use 12-hour format. To change the format, see page 132.
  - You can set the melody for the alarm by pressing the **Melody** soft key.
- 6. Select **AM** or **PM** for 12-hour format and press the **Select** soft key.

The color of the date on the calendar changes to green to indicate that a memo exists for that date.

#### Viewing a Memo

When you select a day for which a memo already exists on the calendar, the latest memo for the day displays.

If more than one memo is stored, press the Up or Down key to scroll to the previous or next memo. Press the **New** soft key to add a new memo for the day.

You can use the following options by pressing the **Options** soft key:

Edit: allows you to change the memo text.

**Alarm**: allows you to set an alarm to ring at a specified time to remind you of the memo. If you set the alarm earlier, you can change or delete it.

**Delete:** allows you to delete the memo.

Copy to: allows you to copy the memo to another

date.

**Move to:** allows you to change the date of the memo.

#### Time & Date

This menu allows you to change the current time and date displayed. You can also find out what time it is in another part of the world.

The following options are available:

**Set Time**: allows you to enter the current time. You can choose the time format in the **Time Format** menu (**Menu 7.3.4**).

Note: Before setting the time, you must specify your time zone in the World Time menu (Menu 7.3.3).

**Set Date**: allows you to enter the day, month and year.

**World Time**: allows you to find out what time it is in another part of the world, using the Left and Right keys.

The screen shows the:

- city name.
- current time and date.
- time difference between the selected city and your city if you have set the local time.
- city selected as your time zone.

To select your time zone:

 Select the city corresponding to your time zone by pressing the Left or Right key one or more times. The local time and date display.

2. Press the Set soft key.

**Time Format**: allows you to change the time format to **24 Hours** or **12 Hours**.

**Auto Update**: allows you to receive time information from your service provider's network.

Off: you need to manually set the time and date according to the current time zone using the **Set Time** menu (Menu 7.3.1).

On: the phone automatically updates the time and date according to the current time zone using the network service.

<u>Confirm First</u>: the phone asks for a confirmation before the update.

Note: Automatic updates of time and date does not change the time you have set for alarm settings or calendar memos.

#### Calculator

With this feature, you can use the phone as a calculator. The calculator provides basic arithmetic functions; addition, subtraction, multiplication and division

1. Enter the first number using the numeric keys.

#### Notes:

To delete mistakes or clear the display, press the C key.

To include a decimal point or a bracket, press the left soft key until the symbol you want displays.

#### Organizer

- Press the right soft key until the arithmetic symbol you want appears: + (addition), - (subtraction), \* (multiplication), / (division).
- 3. Enter the second number.
- 4. To view the result, press the **result**, press the **result**.
- 5. Repeat steps 1 to 4 as many times as required.

#### To Do List

This feature allows you to:

- enter a list of tasks to be done.
- assign a priority and a deadline to each task.
- sort the tasks by priority and status mark.

## **Creating the To Do List**

- 1. Press the **New** soft key.
- 2. Enter the first task.

For further details about entering characters, see page 51.

- 3. Press the **OK** soft key.
- Select a priority status of high, normal or low using the Up and Down keys and press the **Select** soft key.
- Enter your deadline and press the OK soft key.
   If you do not want to set a deadline, press the Skip soft key.

#### **Editing the To Do List**

When you select the To Do List menu (Menu 7.5), the current contents display with the status mark if the task has been done and priority; 📦 for High, 📦 for Normal and M for Low.

You can use the following options:

Action	Procedures
View the details	① Highlight the task.
for a specific	② Press the View soft key.
task	③ Scroll through the tasks using the Up and Down keys, if necessary.
Change the	① Highlight the task.
status of a specific task	② Press the * key to mark the task as completed as of the current time and date.
	<u>or</u>
	① Highlight the task.
	② Press the <b>Options</b> soft key.
	3 Select the <b>Mark</b> option.
	Select the appropriate status (Done or Undo).
Create a new	① Press the <b>Options</b> soft key.
task	② Select the <b>New</b> option.
	③ Enter the text, priority and/or deadline for the task.

Action	Procedures (Continued)
Edit an existing task	<ol> <li>Highlight the task.</li> <li>Press the <b>Options</b> soft key.</li> <li>Select the <b>Edit</b> option.</li> <li>Change the text, priority and/or deadline for the task.</li> </ol>
Sort the existing tasks by priority or status	<ol> <li>Press the <b>Options</b> soft key.</li> <li>Select the <b>Sort</b> option.</li> <li>Select the sort criterion (<b>High</b>, <b>Low</b>, <b>Done</b> or <b>Undo</b>).</li> </ol>
Copy a task	<ol> <li>Highlight the task.</li> <li>Press the <b>Options</b> soft key.</li> <li>Select the <b>Copy</b> option.</li> <li>Change the text, priority and/or deadline for the task.</li> </ol>
Copy a task to the calendar	<ol> <li>Highlight the task.</li> <li>Press the <b>Options</b> soft key.</li> <li>Select the <b>Copy to Calendar</b> option.</li> <li>Change the text and deadline for the task and set the alarm.</li> </ol>
Delete a task	① Highlight the task. ② Press the <b>Options</b> soft key. ③ Select the <b>Delete</b> option.
Delete all tasks	<ol> <li>Press the <b>Options</b> soft key.</li> <li>Select the <b>Delete All</b> option.</li> <li>Confirm the deletion by pressing the <b>OK</b> soft key.</li> </ol>

Action	Procedures (Continued)
Exit the To Do	① Press the <b>Options</b> soft key.
list	2 Select the <b>Exit</b> option.

#### Voice Memo

You can record voice memos. After recording, you can send a memo to other people using the Multimedia Message Service.

#### Record

This menu allows you to record a new memo. When you select this option, the display shows the 30-second timer.

- 1. To start recording, press the **Record** soft key.
- Record a memo by speaking into the microphone.
- When you press the **Stop** soft key or if the recording time expires, the following options display:
- Replay: plays back your memo.
- Re-record: discards the memo and enables you to record another one.
- ◆Save: allows you to save the memo.
- Quit: cancels your recording and exits the Record menu.
- To save the memo, choose Save from the options and press the Select soft key.

- 5. Press the **C** key to clear the default name, if necessary, and enter a name for the memo.
  - For further details about entering characters, see page 51.
- 6. Press the **OK** soft key.
  - The memo is saved and then the display shows the memo information.
- 7. Press the **Options** soft key to use the following memo options:
- Send: allows you to send the memo to other people by using the MMS feature. Follow the procedure on page 90.
- ◆ **Rename**: allows you to change the memo's name.
- Delete: deletes the memo.
- 8. To exit, press the C or row key.

#### **Voice Memo List**

This menu shows your voice memo list. Scroll to a memo and press the **Options** soft key. The following options are available:

Play: plays the memo.

**Send**: allows you to send the memo to other people by using the MMS feature. Follow the procedure on page 90.

**Rename**: allows you to change the memo's name. **Information**: displays information about the memo, such as the name, date when the memo was made, recording duration and memory size.

**Delete:** allows you to delete the memo.

#### **Delete All**

In this menu, you can delete all of your voice memos. When a confirming message appears, press the **Yes** soft key. To cancel the deletion, press the **No** soft key.

## **Memory Status**

You can check the amount of memory for voice memos.

The display shows you the total, free and used space including the number of memos you recorded and the total number of memos you can record.

## **Currency Exchange**

Using this menu, you can figure out currency conversions.

- 1. Enter the current exchange rate of your source currency and press the **OK** soft key.
  - You can insert a decimal point by pressing the # key.
- Enter the amount to convert and press the **OK** soft key.
  - The amount you entered and its equivalent value display.
- Press the Exit soft key to exit the currency convertor.

## **Network Services**

These menu functions are network services. Please contact your service provider to check their availability and subscribe to them, if you wish.

## **Call Forwarding**

This network service enables incoming calls to be rerouted to a number that you specify.

<u>Example</u>: You may wish to forward your business calls to a colleague while you are on holidays.

You can use the following options to forward voice calls and/or data calls:

Forward Always: all calls are forwarded.

**Busy**: calls are forwarded when you are already on another call.

**No Reply**: calls are forwarded when you do not answer the phone.

**Unreachable**: calls are forwarded when you are not in an area covered by your service provider.

**Cancel All:** all call forwarding options are canceled. To set your call forwarding options:

- Select a call forwarding option by pressing the Up or Down key, and then press the **Select** soft key.
- Select the type of calls, voice or data, by pressing the Up or Down key, and then press the **Select** soft key.

The current status displays. If the option has already been set, the number to which the calls are forwarded displays.

То	Press the
activate call forwarding	<b>Activate</b> soft key. Go to step 4.
change the number to be called	<b>Change</b> soft key. Go to step 4.
deactivate call forwarding	Remove soft key.

3. Enter the number to which the calls are to be forwarded and press the **OK** soft key.

To enter an international code, press the  ${\bf 0}$  key until the  ${\bf +}$  sign displays.

The phone sends your settings to the network and the network's acknowledgement displays.

You can deactivate all call forwarding settings by selecting the **Cancel All** option.

#### **Call Waiting**

This network service informs you when someone is trying to reach you during another call.

You can specify individual call waiting option for voice calls and/or data calls:

To set your call waiting options:

 Select the type of calls, voice or data, to which you want to apply the call waiting option by pressing the Up or Down key, and then press the Select soft key.

The screen informs you whether call waiting is activated or deactivated.

You can activate or deactivate the call waiting feature as necessary by using the **Activate** or **Deactivate** soft key respectively.

To return to the previous screen, press the **Exit** soft key.

You can also deactivate all call waiting settings by selecting the **Cancel All** option.

### **Network Selection**

The Network Selection feature enables you to automatically or manually select the network used when roaming outside of your home area.

**Note:** You can select a network other than your home network only if there is a valid roaming agreement between them.

To automatically or manually connect to a network when roaming:

- When Network Selection displays, press the Select soft key.
- 2. Press the Up or Down key until the appropriate option highlights and then press the **OK** soft key.

If you select Automatic, you are connected to the first available network when roaming.

If you select **Manual**, the phone scans for the available networks. Go to step 3.

3. Press the Up or Down key until the network you want highlights and then press the **OK** soft key.

You are connected to that network.

### Caller ID

You can prevent your phone number from being displayed on the phone of the person being called.

Note: Some networks do not allow the user to change this setting.

The following options are available:

**Default:** the default setting provided by the network is used.

**Hide Number**: your number does not display on the other person's phone.

**Send Number**: your number is sent each time you make a call.

## **Funbox**

The **Funbox** menu contains several fun options.

#### **WAP Browser**

Your phone is equipped with a WAP (Wireless Application Protocol) browser to allow you to access and navigate the Wireless Web using your phone.

#### mMode

Selecting this menu connects the phone to the network and loads the homepage of the Wireless Web service provider. You can also press the m> key in Idle mode.

The content of the WAP Browser startup homepage depends on your Wireless Web service provider. To scroll through the screen, use the Up and Down keys.

**Note:** To access the startup homepage from any other screen in the WAP browser, use the **Home** option. For further details about the WAP Browser menus, see page 145.

#### **Exiting the WAP Browser**

To exit the browser at any time, simply press the ightharpoons key.

#### **Navigating the WAP Browser**

То	Press the
scroll through and select browser items	Up or Down key until the symbol ▶ points to the item, and then press the <b>Select</b> soft key to confirm the selection.
select a numbered item	corresponding numeric key.
return to the previous page	Back soft key or the C key.
return to the startup homepage	* key for more than two seconds and select the <b>Home</b> option. For further details about this option, see page 145.

## **Entering Text in the WAP Browser**

When you are prompted to enter text, the current text input mode is indicated on the screen. To change text input mode, press the  $\mathbf{m}$ ; key one or more times.

The following modes are available:

**19 mode (19)**: allows you to enter English characters by pressing one key per letter. In this mode, you can use only the **0** key to display alternative words. To change the case, press the \*key.

**Number (1)**: allows you to enter numbers.

**Upper-case character mode (A)**: allows you to enter upper-case English characters.

**Lower-case character mode (a)**: allows you to enter lower-case English characters.

**Note:** You can enter special characters in Upper-case or Lower-case Character mode. For details about available characters, see page 55.

#### **Selecting and Using Browser Menu Options**

Various menu options are available when you are using the WAP Browser to navigate the Wireless Web. To access a menu option:

- Press and hold the \* key.
   A menu list displays.
- 2. Highlight a menu by pressing the Up or Down key.
- 3. Select an option by pressing the **Select** soft key.
- If necessary, select a secondary option using the Up and Down keys, and press the **Select** soft key to confirm.

Note: The menus may vary, depending on your version of the WAP browser.

The following options are available:

**Reload**: reloads the current page.

**Home**: takes you back at any time to the home page

of the Wireless Web service provider.

**Go to URL**: allows you to manually enter the URL address of a Web page. After entering an address,

press the **OK** soft key to go there directly.

**Show URL**: displays the URL address of the Web page to which you are currently connected. It also enables you to set the current site as the startup home page.

То	Press the
set the current page as your startup home page	Option soft key and select the Save to Home option.
set a bookmark for the current page	Option soft key and select the Save to Bookmark option
cancel your setting	Back soft key.

**Edit Home**: allows you to change the startup home page manually. Enter the URL and press the **OK** soft key. For further details about entering text, see page 51.

**Clear Cache**: deletes the information stored in the cache, which stores the most recently accessed Web pages.

**Inbox**: allows you to read messages received from the web server

#### **Bookmarks**

This menu allows you to store the URL addresses of up to ten of your favorite web sites. You can access this menu directly by pressing and holding the # key while using the WAP browser.

To store a URL address:

- Select an empty location and press the **Options** soft key.
- 2. Enter the address and press the Enter soft key.
  - For further details about entering characters, see page 51.
- Enter a name for the favorite item and press the Enter soft key.

After saving favorite items, you can use the following options by pressing the **Options** soft key:

Goto URL: takes you to the site.

Edit: allows you to edit the address and name.

**Delete:** allows you to delete the item.

## http://

This menu allows you to manually enter the URL address of the Web site that you wish to access. For further details about entering characters, see "Text Messages" on page 73.

## **Settings**

This menu allows you to set up five proxy servers for the WAP browser. Contact your service provider for details about your Settings options.

For each server, the following options are available:

**Profile Name**: enter a name that you wish to assign to the HTTP server.

**Homepage URL:** set the address of your startup homepage. When the default homepage displays, you can delete it using the **C** key and enter your own choice.

**Security**: select a data transmission mode. Choose **Secure** to protect your data against unauthorized access; otherwise, choose **Non-Secure**.

**Bearer**: select a bearer to be used for each type of network address accessed; **GPRS** or **Data**.

The remaining options depend on the Bearer setting.

When the bearer is set to GPRS:

**IP Address**: enter the WAP gateway address required to connect to the Internet.

**User Name**: enter the User ID required to connect to the GPRS network.

**Password:** enter the password required to connect to the GPRS network.

**APN**: enter the access point name used for the address of the GPRS network gateway.

When the begrer is set to **Data**:

**IP Address:** enter the WAP gateway address required to connect to the Internet.

**Login Name:** enter the PPP server login ID.

Password: enter the PPP server password.

**Dial-up Number:** enter the PPP server phone number.

**Data Call Type:** select a data call type; **Analogue** or **ISDN**.

**Note:** The WAP browser settings may vary, depending on the service provider. Contact your service provider for further details.

#### **Clear Cache**

You can clear the information stored in the cache, the phone's temporary memory which stores the most recently accessed Web pages.

Press the **Yes** soft key to confirm the deletion. Otherwise, press the **No** soft key.

## **Push Message**

In this menu, you can receive and access web messages from the server.

The following options are available:

**Inbox**: allows you to read the messages received from the web server.

**Receive**: allows you to set whether or not your phone receives web messages.

**Delete All**: allows you to delete all of the web messages.

#### Games

You can download MIDlets (Java applications running on mobile phones) from various sources using the WAP Browser and store them in your phone. When you access the **Games** menu, the list of the default games appears.

## **Downloading a New Game**

You can download more games from the web site given by your service provider using the **mMode Downloads** option. Once you have downloaded games, they are added to the list.

 $\ensuremath{\text{\textbf{Note:}}}$  Java services may not be available depending upon your service provider.

#### Launching a MIDlet

**Note:** The procedures explained below are for the default games. For downloaded games, the procedure may be different.

- Scroll to the MIDlet you want on the Games list and press the Launch soft key.
- 2. On the startup screen of the MIDIet, scroll to an option using the Navigation keys.

The following options are available:

- START GAME: starts a new game.
- CONTINUE: allows you to continue the last game you were playing.
- **HIGH SCORE**: shows the high score table. This option may not be available for some games.
- **HOW TO PLAY**: shows how to play the game and the key functions for the game.
- **OPTION**: allows you to switch the game sound on or off.
- 3. Press the  $\mathbf{m}$  key to confirm your selection.

While you are playing a game, to	Press the
adjust the sound volume	Volume keys
stop the game and return to the startup screen	C key.
exit the game	<b>ふ</b> √⁰ key.

#### **Viewing MIDlet Information**

- Scroll to the MIDlet you want and press the Info soft key.
  - The display shows information about the MIDlet, such as the file size, application version and its vendor.
- 2. To scroll to other MIDlet information, press the Navigation keys.
- If you want to delete the MIDIet, press the **Delete** soft key and then press the **Yes** soft key to confirm the deletion.
- 4. To exit and return to the Games screen, press the Back soft key or the **c** key.

**Note:** When you select the default games from the list, the **Delete** option is not available, so that you cannot delete them.

## **Entering Text**

If you need to enter text while using a MIDlet, you can use the following input modes:

**Upper-case character mode (A)**: allows you to enter upper-case English characters.

**Lower-case character mode (a)**: allows you to enter lower-case English characters.

**Number mode (1)**: allows you to enter numbers.

**Symbol mode:** allows you to enter symbols. After highlighting a symbol by pressing the Navigation keys, press the **m**'s key to insert it.

**19 mode (19):** allows you to enter English characters by pressing one key per letter. In this mode, you can change the case by pressing the **0** key.

To change the text input mode, press the \* key until the appropriate indicator appears.

#### Sounds

In this menu, you can view the list of sounds downloaded from the web server or received in multimedia messages. You can set the downloaded sounds as the current ring tone or send them to other phones.

By pressing the **Options** soft key, you can use the following options:

**Rename:** allows you to change the name of the sound.

**Delete:** deletes the sound.

**Set as Ring Tone:** sets the sound as your ring tone.

## **Images**

In this menu, you can view the list of pictures downloaded from the web server or received in multimedia messages. You can set the downloaded pictures as the current background image or send them to other phones.

If you set a photo as your wallpaper, it displays as **My Photo** on the list.

By pressing the **Options** soft key, you can use the following options:

**Rename:** allows you to change the name of the image.

**Delete:** deletes the image.

Set as Wallpaper: sets the image as your wallpaper

for the idle screen.

## **Delete All**

This menu allows you to delete all of the downloaded items in the Games, Sounds or Images folders. You can delete all of the items at one time.

То	Press the
select a folder to clear	Up or Down key. To delete all of your items, select <b>All</b> .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.
delete the marked items	Delete soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

## **Memory Status**

You can check the amount of memory being used and the memory remaining for games, sounds and images.

**Games**: the display shows the total, free and used space and the number of games downloaded.

**Sounds & Images**: the display shows the total, free and used space, including the memory status used by sounds and images.

## **Solving Problems**

If you are experiencing problems with your phone, perform the following simple checks before contacting a service professional. This may save you the time and expense of an unnecessary service call.

# When you switch your phone on, the following messages may appear:

#### **Insert SIM Card**

Check that the SIM card is correctly installed.

#### **Phone Locked Enter Password**

• The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

#### **Enter PIN**

- You are using your phone for the first time. You must enter the Personal Identification Number (PIN) supplied with the SIM card.
- ◆ The PIN Check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the PIN Check menu (Menu 6.5.1).

#### **Enter PUK**

• The PIN code was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK supplied by your service provider.

## "No service." "Network failure" or "Not done" displays

- The network connection was lost. You may be in a weak signal area (in a tunnel or surrounded by buildings). Move and try again.
- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

#### You have entered a number but it was not dialed

- Are you accessing the right cellular network?

## Your correspondent cannot reach you

- Is your phone switched on (the  $\mathbf{r}^{\setminus 0}$  key pressed for more than one second)?
- Are you accessing the right cellular network?

## Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located at the bottom of the phone.

## The phone starts beeping and "\*\*Warning\*\* Low Battery" flashes on the display

Your battery is insufficiently charged. Recharge the battery.

## The audio quality of the call is poor

- Check the signal strength indicator on the display (\(\begin{align\*}T\_{\text{ind}}\)): the number of bars indicates the signal strength from strong (\(\begin{align\*}T\_{\text{ind}}\)) to weak (\(\begin{align\*}T\_{\text{ind}}\)).
- Try moving the phone slightly or moving closer to a window if you are in a building.

## No number is dialed when you recall a Phone Book entry

- Check that the number has been stored correctly, by using the Phone Book Search feature.
- Re-store the number, if necessary.

If the above guidelines do not help you to solve the problem, take note of:

- the model and serial numbers of your phone
- your warranty details
- a clear description of the problem

Then contact your local dealer or Samsung after-sales service.

## **Access Codes**

There are several access codes that are used by your phone and its SIM card. These codes help you protect the phone against unauthorized use. When requested for any of the codes explained below, enter the appropriate code (displayed as asterisks) and press the **OK** soft key. If you make a mistake, press the **C** key one or more times until the incorrect digit is cleared and then continue entering the correct code.

The access codes, except for the PUK and PUK2 codes, can be changed using the **Security** menu (**Menu 6.5**). See page 120 for further details.

Important! Avoid using access codes resembling emergency numbers, such as 911, so that you do not accidentally dial an emergency number.

## **Phone Password**

The Phone Lock feature uses the phone password to protect your phone against unauthorized use. The phone password is supplied with the phone and is preset to "00000000" at the factory.

То	See
activate/deactivate the Phone Lock feature	"Phone Lock" on page 121 (Menu 6.5.3).
change the phone password	"Change Password" on page 121 ( <b>Menu 6.5.4</b> ).

#### PIN

The **P**ersonal Identification **N**umber or PIN (4 to 8 digits) protects your SIM card against unauthorized use. It is usually supplied with the SIM card.

If you enter an incorrect PIN three times in succession, the code is disabled and cannot be used until you re-enable it by entering the PUK (see below).

То	See
activate/deactivate the PIN Check feature	page 120 ( <b>Menu 6.5.1</b> ).
change the PIN	page 120 ( <b>Menu 6.5.2</b> ).

#### **PUK**

The 8-digit PUK (**P**IN **U**nblocking **K**ey) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, or you have lost it, contact your service provider.

To re-enable your PIN:

- 1. Enter the PUK and press the **OK** soft key.
- Enter a new PIN of your choice and press the OK soft key.
- When the Confirm New PIN message displays, enter the same code again and press the OK soft key.

If you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

#### PIN<sub>2</sub>

The PIN2 (4 to 8 digits), supplied with some SIM cards, is required to access specific functions, such as setting the maximum cost of a call. These functions are available if supported by your SIM card. If you enter an incorrect PIN2 three times in succession, the code is disabled and you cannot access the functions until you re-enable it by entering the PUK2.

To change the PIN2, see page 123 (Menu 6.5.7).

#### PUK2

The 8-digit PUK2 (**P**IN **U**nblocking **K**ey **2**), supplied with some SIM cards, is required to change a disabled PIN2. If you lose the code, contact your service provider.

To re-enable your PIN2:

- 1. Enter the PUK2 and press the **OK** soft key.
- Enter a new PIN2 of your choice and press the OK soft key.
- When the Confirm PIN2 message displays, enter the same code again and press the OK soft key.

If you enter an incorrect PUK2 ten times in succession, you will not be able to access the functions requiring the PIN2. Contact your service provider for a new card.

## **Health and Safety Information**

## **Exposure to Radio Frequency (RF) Signals**

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards that were developed by independent scientific organizations through periodic and through evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the FCC is 1.6W/kg.\*

<sup>\*.</sup> In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID printed in the label on the phone.

FCC certification information for this model phone is attached separation paper.

## **For Body Operation**

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body.

The minimum distance for this model phone is written in the FCC certification information from the body. None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)

http://www.fcc.gov

Cellular Telecommunications Industry Association

(CTIA): http://www.wow-com.com

U.S.Food and Drug Administration (FDA)

http://www.fda.gov/cdrh/consumer

World Health Organization (WHO)

http://www.who.int/peh-emf/en

## **Precautions When Using Batteries**

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the

- cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge, the type of battery and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsungapproved chargers. When a charger is not in use, disconnect it from the power source.
- Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- ◆ Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 C (32 F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Shortcircuiting the terminals may damage the battery or the object causing the short-circuiting.

 Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

## **Road Safety**

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

- Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
- When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
- Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
- Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
- Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through

- your phonebook takes your attention away from your primary responsibility, driving safely.
- Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
- Do not engage in stressful or emotional conversations that may be distracting. Make the people with whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.
- Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
- Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.
- If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special non-emergency wireless number.

## **Operating Environment**

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

#### **Electronic Devices**

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

#### **Pacemakers**

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

## **Hearing Aids**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

#### **Other Medical Devices**

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

#### **Vehicles**

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

#### **Posted Facilities**

Switch your phone off in any facility where posted notices require you to do so.

## **Potentially Explosive Environments**

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include the areas below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

## **Emergency Calls**

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore,

you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

- 1. If the phone is not on, switch it on.
- 2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
- 3. Press the **<Send>** kev.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

## **Other Important Safety Information**

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember air bag inflates with great force. Do not place including both installed or portable wireless equipment the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phones in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

#### **Care and Maintenance**

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions help you fulfill any warranty obligations and allow enjoy this product for many years:

- Keep the phone and all its parts and accessories reach of small children's.
- Keep the phone dry. Precipitation, humidity and contain minerals that will corrode electronic circuits.

- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-andwater solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

# Acknowledging Special Precautions and the FCC and Industry Canada Notice

#### **Cautions**

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **FCC Compliance Information**

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received.

Including interference that may cause undesired operation.

### **Information to User**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will

not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Appendix A: CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on safety standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. SAR Tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations(e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR values of this model phone as reported to FCC are Head: 1.440 W/kg, Body-worn: 1.300 W/kg in GSM 850 and Head: 0.663 W/kg, Bodyworn: 0.449 W/kg in GSM 1900.

Body-worn operations are restricted to Samsungsupplied, approved or none Samsung designated accessories that have no metal and must provide at least 1.5cm separation between the device, including its antenna whether extended or retracted, and the user's body. None compliance to the above restrictions may violate FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID A3LSGHE316.

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial ma gin of safety to give additional protection for the public and to account for any variations in measurements

## Appendix B: Guide to Safe and Responsible Wireless Phone Use

Cellular Telecommunications & Internet Association "Safety is the most important call you will ever make."

#### A Guide to Safe and Responsible Wireless Phone Use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIMEWITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone

users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

#### **Wireless Phone "Safety Tips"**

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember:

- Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
- When available, use a hands free device. A
  number of hands free wireless phone accessories
  are readily available today. Whether you choose
  an installed mounted device for your wireless
  phone or a speaker phone accessory, take
  advantage of these devices if available to you.
- Position your wireless phone within easy reach.
   Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an

- incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
- 4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
- 5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a to do list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
- 6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.
- 7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix-

- they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
- 9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a Good Samaritan in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
- 10. Call roadside assistance or a special wireless non emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic

accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

Cellular Telecommunications & Internet Association For more information, please call 1-888-901-SAFE. For updates: http://www.wow-com.com/consumer/

ror updates: http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID =85

# Appendix C: Consumer Update on Wireless Phones U.S. Food and Drug Administration

 What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell, mobile, or PCS phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance

between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

#### 2. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing

those studies, or in determining the reasons for inconsistent results.

3. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at

the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration
- The National Institutes of Health participates in some interagency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people aet from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety auestions discussed in this document.

4. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are

conducted to address important questions about the effects of exposure to radio frequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

5. What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

#### 6. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For

example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

7. Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

8. Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to

believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

9. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow

manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

# 10. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with

cancer causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, gioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

11. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide

answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

12. Which other federal agencies have responsibilities related to potential RF health effects?

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations.

FCC RF Safety Program:

http://www.fcc.gov/oet/rfsafety/

Environmental Protection Agency (EPA):

http://www.epa.gov/radiation/

Occupational Safety and Health Administration's (OSHA):

http://www.osha-slc.gov/SLTC/

radiofrequencyradiation/index.html

National Institute for Occupational Safety and Health (NIOSH):

http://www.cdc.gov/niosh/emfpg.html

World health Organization (WHO):

http://www.who.int/peh-emf/

International Commission on Non-Ionizing Radiation Protection:
http://www.icnirp.de
National Radiation Protection Board (UK):
http://www.nrpb.org.uk

Updated 4/3/2002: US Food and Drug Administration http://www.fda.gov/cellphones

### STANDARD LIMITED WARRANTY

What is Covered and For How Long? SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. (SAMSUNG) warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case/Pouch	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions

resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or

replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

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- WARRANTIES OF TITLE OR NON-INFRINGEMENT:
- DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR

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DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT, AS THE CASE MAY BE

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## **Glossary**

To help you understand the main technical terms and abbreviations used in this booklet, and to take full advantage of the features of your mobile phone, here are a few definitions:

#### **Active Folder**

Ability to answer a call simply by opening the phone.

#### **Call Forwarding**

Ability to reroute calls to another number.

#### **Call Holding**

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

#### **Call Waiting**

Informs you that you have an incoming call when you are engaged on another call.

#### Caller Line Identification Services (Caller ID)

Services allowing subscribers to view or block the telephone numbers of callers.

#### **Dual Band**

Ability to handle any of the following types of network: GSM 850 and GSM 1900 MHz bands, for greater call success and wider roaming.

#### **EMS (Enhanced Message Service)**

An adaptation of the Short Message Service (SMS) that allows you to send and receive ring tones and the service provider's logo, as well as combinations of simple media to and from EMS-compliant handsets. Because EMS is based on SMS, it can use SMS centers the same way that SMS does. EMS works on all Global System for Mobile communications (GSM) networks. EMS senders can use text, melodies, pictures, sounds, and animations to enhance the expressive power of messages that are limited by the display constraints of mobile devices.

#### **GPRS (General Packet Radio Service)**

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS provides continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

#### **GSM (Global System for Mobile Communication)**

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

#### Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been

promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a *Java applet*. When it is run on a mobile phone or pager, it is called a MIDlet.

#### MMS (Multimedia Message Service)

A message service for the mobile environment, standardized by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediate delivery of usercreated content from phone to phone. The message addressing used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can be sent by e-mail. In addition to the text content of SMS, MMS messages can contain still images, voice or audio clips, and also video clips and presentation information.

#### **Multi-party Calling**

Ability to establish a conference call involving up to five additional parties.

#### **Phone Password**

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

#### PIN (Personal Identification Number)

Security code that protects the phone against unauthorized use. The PIN is supplied by the service

provider with the SIM card. It may be a four to eightdigit number and can be changed, as required.

#### PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

#### Roaming

Use of your phone when you are outside your home area (when traveling for example).

#### **SDN (Service Dialing Numbers)**

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

#### SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot on the back of the phone and is protected by the battery.

#### SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

#### Soft Keys

Two keys marked  $\widehat{\mathbb{A}}$  and  $\widehat{\mathbb{A}}$  on the phone, the purpose of which:

- varies according to the function that you are currently using.
- is indicated on the bottom line of the display just above the corresponding key.

#### Voice Mail

Computerised answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

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# Dual Band SGH-e316 GPRS Telephone Quick Reference Card

Switch On/Off Press and hold the 🔊 (Rey.	① Enter the number. ② Press the 🤵 key.	Briefly press the ♠\① key.	Open the phone and press the <b>View</b> soft key.     Scroll using the Up and Down keys through the missed calls.     To return the call mess.	the ) key.	Open the phone or Press the <b>1</b> key.
Switch On/Off	Make a Call	End a Call	View Missed Calls Immediately After Missing Them		Answer a Call
① Press the <b>Menu</b> soft key.	<ul> <li>Scroll using the op and Down keys through the list of the menus until you reach the menu you want</li> </ul>	<ul> <li>Press the Select soft key.</li> <li>Caroll using the Un and</li> </ul>	Own keys through the list of the options until the one you want is selected.  Bress the <b>Select</b> soft key.	Each of the two soft keys ((ii) and (ii))	perform the function indicated by the text above it on the bottom line in the display.
Access the Menu	Functions			Each of th	perform t text abov display.



Take a Photo	Adjust the Volume Choose the Alert Type
With the folder open     Press and hold the Camera key.     Press the Up key or Camera key.     Press the Save soft key.     With the folder closed     Press and hold the Camera key.     Press the Camera key.	Press the A or v key on the left side of the phone.  © Select the Alert Type menu option (Menu 5.3). © Select an option: • Light Only • Melody • Vibration • Vibra+Melody © Press the Select soft key.
Number in Phonebook	Store Numbers in Phonebook
key.  Select the Search option.  Enter the first few letters of the name.  To scroll through the names, press the Up or Down key.  Press the View soft key.  To scroll through the numbers, press the Up or Down key.	① Enter the number and press the Save soft key. ② Select an icon. ③ Press the Select soft key. ④ Select a memory. ⑤ Press the Select soft key. ⑤ Press the PM soft key. ⑤ Press the PM soft key. ⑥ Press the PM. Book soft  ① Press the Ph. Book soft